

Lexin Li

CONTACT

Department of Biostatistics and Epidemiology
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RESEARCH INTERESTS

- ▷ Neuroimaging data analysis: brain connectivity analysis, imaging causal inference, imaging genetics, longitudinal imaging analysis, multimodal neuroimaging analysis, tensor analysis
- ▷ Statistical genetics, computational biology
- ▷ Dimension reduction, variable selection, high dimensional regressions
- ▷ Statistical machine learning, data mining, computational statistics

EDUCATION

- ▷ Ph.D. Statistics. University of Minnesota, Twin Cities 2003
- ▷ M.S. Statistics. University of Minnesota, Twin Cities 2002
- ▷ B.E. Electrical Engineering. Zhejiang University, China 1998

POSITIONS

- ▷ Professor Department of Biostatistics & Helen Wills Neuroscience Institute
University of California, Berkeley
2018 - present
- ▷ Associate Professor Department of Biostatistics, University of California, Berkeley
2014 - 2018
- ▷ Visiting Associate Professor Department of Statistics, Stanford University
2012 - 2013
- ▷ Visiting Associate Professor Yahoo! Research Labs
2011 - 2012
- ▷ Associate Professor Department of Statistics, North Carolina State University
2011 - 2014
- ▷ Assistant Professor Department of Statistics, North Carolina State University
2005 - 2011
- ▷ Post-Doctoral Scholar School of Medicine, University of California, Davis
2003 - 2005

HONORS

- ▷ Fellow, American Statistical Association 2017
- ▷ UC Berkeley School of Public Health Teaching Excellence Honoree 2016 Spring, 2016 Fall

PUBLICATIONS

► Articles in Peer Reviewed Journals

- [1] Sun, W.W. and Li, L. (2019+). Dynamic tensor clustering. *Journal of the American Statistical Association*, in press.
- [2] Zhang, X., Li, L., Zhou, H., and Shen, D. (2019+). Tensor generalized estimating equations for longitudinal imaging analysis. *Statistica Sinica*, in press.
- [3] Xia, Y. and Li, L. (2019). Matrix graph hypothesis testing and application in brain connectivity alternation detection. *Statistica Sinica*, **29**, 303-328.
- [4] Li, L., Kang, J., Lockhart, S.N., Adams, J., and Jagust, W. (2019). Spatially adaptive varying correlation analysis for multimodal neuroimaging data. *IEEE Transactions on Medical Imaging*, **38**, 113-123.
- [5] Zhu, Y. and Li, L. (2018). Multiple matrix Gaussian graphs estimation. *Journal of the Royal Statistical Society, Series B.*, **80**, 927-950.
- [6] Li, Q. and Li, L. (2018). Integrative linear discriminant analysis with guaranteed error rate improvement. *Biometrika*, **105**, 917-930.
- [7] Li, X., Xu, D., Zhou, H., and Li, L. (2018). Tucker tensor regression and neuroimaging analysis. *Statistics in Biosciences*, **10**, 520-545.
- [8] Adams J.N., Lockhart, S.N., Li, L., and Jagust, W.J. (2018). Relationships between tau and glucose metabolism reflect Alzheimer's disease pathology in cognitively normal older adults. *Cerebral Cortex*, 1-13.
- [9] Li, L. (2018). Sufficient dimension reduction. *Wiley StatsRef: Statistics Reference Online*, 1-8.
- [10] Li, L. and Zhang, X. (2017). Parsimonious tensor response regression. *Journal of the American Statistical Association*, **112**, 1131-1146.
- [11] Sun, W.W. and Li, L. (2017). Sparse tensor response regression and neuroimaging analysis. *Journal of Machine Learning Research*, **18**, 4908-4944.
- [12] Zhang, X. and Li, L. (2017). Tensor envelope partial least squares regression. *Technometrics*, **59**, 426-436.
- [13] Xia, Y. and Li, L. (2017). Hypothesis testing of matrix graph model and application in brain connectivity analysis. *Biometrics*, **73**, 780-791.
- [14] Li, Z., Suk, H-I., Shen, D., and Li, L. (2016). Sparse multi-response tensor regression for Alzheimer's disease study with multivariate clinical assessments. *IEEE Transactions on Medical Imaging*, **35**, 1927-1936.

- [15] Kang, J. and Li, L. (2016). Discussion of “Fiber direction estimation, smoothing and tracking in diffusion MRI” by R. Wong, et al. *The Annals of Applied Statistics*, **10**, 1162-1165
- [16] Guo, Z., Li, L., Lu, W., and Li, B. (2015). Groupwise dimension reduction via envelope method. *Journal of the American Statistical Association*, **110**, 1515-1527.
- [17] Zhou, H., and Li, L. (2014). Regularized matrix regression. *Journal of the Royal Statistical Society, Series B.*, **76**, 463-483.
- [18] Ding, X., Li, L., and Zhu, L.X. (2014). Goodness-of-fit testing-based selection for large-p-small-n problems: a two-stage ranking approach. *Journal of Statistical Planning and Inference*, **145**, 148-164.
- [19] Zhao, J., Leng, C., Li, L., and Wang, H. (2013). High dimensional influence measure. *The Annals of Statistics*, **41**, 2639-2667.
- [20] Zhou, H., Li, L., and Zhu, H. (2013). Tensor regression with applications in neuroimaging data analysis. *Journal of the American Statistical Association*, **108**, 540-552.
- [21] Zhu, H., Li, L., and Zhou, H. (2012). Nonlinear dimension reduction with Wright-Fisher kernel for genotype aggregation and association mapping. *Bioinformatics*, **28**, 375-381.
- [22] Sun, W., and Li, L. (2012). Multiple loci mapping via model-free variable selection. *Biometrics*, **68**, 18-22.
- [23] Li, B., Artemiou, A., and Li, L. (2011). Principal support vector machines for linear and nonlinear sufficient dimension reduction. *The Annals of Statistics*, **39**, 3182-3210.
- [24] Zhu, L.P., Li, L., Li, R., and Zhu, L.X. (2011). Model-free feature screening for ultrahigh dimensional data. *Journal of the American Statistical Association*, **106**, 1464-1475.
- [25] Reich, B.J., Bondell, H.D., and Li, L. (2011). Sufficient dimension reduction via Bayesian mixture modeling. *Biometrics*, **67**, 886-895.
- [26] Lu, W., and Li, L. (2011). Sufficient dimension reduction for censored regressions. *Biometrics*, **67**, 513-523.
- [27] Zhu, H., and Li, L. (2011). Biological pathway selection through nonlinear dimension reduction. *Biostatistics*, **12**, 429-444.
- [28] Wu, Y., and Li, L. (2011). Asymptotic properties of sufficient dimension reduction with a diverging number of predictors. *Statistica Sinica*, **21**, 707-730.
- [29] Li, L., Zhu, L.P., and Zhu, L.X. (2011). Inference on the primary parameter of interest with the aid of dimension reduction estimation. *Journal of the Royal Statistical Society, Series B.*, **73**, 59-80.
- [30] Shao, X., and Li, L. (2011). Data-driven multi-touch attribution models. *Proceedings of the 17th ACM SIGKDD international conference on knowledge discovery and data mining*, San Diego, CA. In press.
- [31] Li, L., Li, B., and Zhu, L.X. (2010). Groupwise dimension reduction. *Journal of the American Statistical Association*, **105**, 1188-1201.

- [32] Cai, Y., Chow, M.Y., Lu, W., and Li, L. (2010). Statistical feature selection from massive data in distribution fault diagnosis. *IEEE Transactions on Power Systems*, **25**, 642-648.
- [33] Cai, Y., Chow, M.Y., Lu, W., and Li, L. (2010). Evaluation of distribution fault diagnosis algorithms using ROC curves. *Proceedings of Power and Energy Society General Meeting*, Minneapolis, MN. 1-6.
- [34] Cook, R.D., and Li, L. (2009). Dimension reduction in regressions with exponential family predictors. *Journal of Computational and Graphical Statistics*, **18**, 774-791.
- [35] Setodji, C.M., and Li, L. (2009). Model free multivariate reduced-rank regression with categorical predictors. *Statistica Sinica*, **19**, 1119-1136.
- [36] Li, L., and Yin, X. (2009). Longitudinal data analysis using sufficient dimension reduction method. *Computational Statistics and Data Analysis*, **53**, 4106-4115.
- [37] Li, L. (2009). Exploiting predictor domain information in sufficient dimension reduction. *Computational Statistics and Data Analysis*, **53**, 2665-2672.
- [38] Bondell, H.D., and Li, L. (2009). Shrinkage inverse regression estimation for model free variable selection. *Journal of the Royal Statistical Society, Series B.*, **71**, 287-299.
- [39] Cornish, K.M., Kogan, C.S., Li, L., Turk, J., Jacquemont, S., and Hagerman, R.J. (2009). Lifespan changes in working memory in fragile X premutation males. *Brain and Cognition*, **69**, 551-558.
- [40] Lu, W., and Li, L. (2008). Boosting methods for nonlinear transformation models with censored survival data. *Biostatistics*, **9**, 658-677.
- [41] Li, L., and Tsai, C.L. (2008). Constrained regression model selection. *Journal of Statistical Planning and Inference*, **138**, 3939-3949.
- [42] Li, L., and Yin, X. (2008). Rejoinder to "A note on sliced inverse regression with regularizations". *Biometrics*, **64**, 984-986.
- [43] Li, L., and Lu, W. (2008). Sufficient dimension reduction with missing predictors. *Journal of the American Statistical Association*, **103**, 822-831.
- [44] Li, L. (2008). Comments on "Augmenting the bootstrap to analyze high dimensional genomic data" by S. Tyekucheva and F. Chiaromonte. *Test*, **17**, 22-24.
- [45] Li, L., and Yin, X. (2008). Sliced inverse regression with regularizations. *Biometrics*, **64**, 124-131.
- [46] Leehey, M.A., Berry-Kravis, E., Goetz, C.G., Zhang, L., Hall, D.A., Li, L., Rice, C.D., Lara, R., Cogswell, J., Reynolds, A., Gane, L., Jacquemont, S., Tassone, F., Grigsby, J., Hagerman, R.J., and Hagerman, P.J. (2008). FMR1 CGG repeat length predicts motor dysfunction in premutation carriers. *Neurology*, **70**, 1397-1402.
- [47] Cornish, K.M., Li, L., Kogan, C.S., Jacquemont, S., Turk, J., Dalton, A., Hagerman, R.J., and Hagerman, P.J. (2008). Age-dependent cognitive changes in carriers of the Fragile X Syndrome. *Cortex*, **44**, 628-636.
- [48] Li, L. (2007). Sparse sufficient dimension reduction. *Biometrika*, **94**, 603-613.

- [49] Li, L., Cook, R.D., and Tsai, C.L. (2007). Partial inverse regression method. *Biometrika*, **94**, 615-625.
- [50] Li, L., and Nachtsheim, C.J. (2007). Comment on “Fisher lecture: dimension reduction in regression” by R. D. Cook. *Statistical Science*, **22**, 36-39.
- [51] Li, L., Simonoff, J.S., and Tsai, C.L. (2007). Tobit model estimation and sliced inverse regression. *Statistical Modelling*, **7**, 107-123.
- [52] Tassone, F., Beilina, A., Carosi, C., Albertosi, S., Bagni, C., Li, L., Glover, K., Bentley, D., and Hagerman, P.J. (2007). Elevated FMR1 mRNA in premutation carriers is due to increased transcription. *RNA*, **13**, 555-562.
- [53] Tassone, F., Adams, J., Berry-Kravis, E.M., Cohen, S.S., Brusco, A., Leehey, M.A., Li, L., Hagerman, R.J., and Hagerman, P.J. (2007). CGG correlates with age of onset of motor signs of the Fragile X-associated Tremor/Ataxia Syndrome (FXTAS). *American Journal of Medical Genetics, Part B: Neuropsychiatric Genetics*, **144**, 566-569.
- [54] Berry-Kravis, E., Goetz, C., Leehey, M.A., Hagerman, R.J., Zhang, L., Li, L., Nguyen, D., Hall, D.A., Tartaglia, N., Cogswell, J., Tassone, F., and Hagerman, P.J. (2007). Neuro-pathic features in fragile X premutation carriers. *American Journal of Medical Genetics, Part A*, **143**, 19-26.
- [55] Li, L., and Nachtsheim, C.J. (2006). Sparse sliced inverse regression. *Technometrics*. **48**, 503-510.
- [56] Azari, R., Li, L., and Tsai, C.L. (2006). Longitudinal data model selection. *Computational Statistics and Data Analysis*, **50**, 3053-3066.
- [57] Li, L. (2006). Survival prediction of diffuse large-B-cell lymphoma based on both clinical and gene expression information. *Bioinformatics*, **22**, 466-471.
- [58] Li, L., Cook, R.D., and Nachtsheim, C.J. (2005). Model-free variable selection. *Journal of the Royal Statistical Society, Series B.*, **67**, 285-299.
- [59] Li, L., and Li, W. (2005). Tabu search and perturbation methods in the construction of supersaturated designs. *American Journal of Mathematical and Management Sciences*, **25**, 189-205.
- [60] Li, L., Cook, R.D., and Nachtsheim, C.J. (2004). Cluster-based estimation for sufficient dimension reduction. *Computational Statistics and Data Analysis*, **47**, 175-193.
- [61] Li, L., and Li, H. (2004). Dimension reduction methods for microarrays with application to censored survival data. *Bioinformatics*, **20**, 3406-3412.
- [62] Li, L., and Nachtsheim, C.J. (2004). Discussion of “A goodness-of-fit test for single-index models” by Y. Xia, et al. *Statistica Sinica*, **14**, 28-34.
- [63] Cook, R.D., and Li, L. (2003). Discussion of “The focused information criterion” by G. Claeskens and N.L. Hjort. *Journal of the American Statistical Association*, **98**, 925-928.
- [64] Li, L. (2002). Comment on “An adaptive estimation of dimension reduction space” by Y. Xia, et al. *Journal of the Royal Statistical Society, Series B.*, **64**, 399-400.

► **Book Chapters**

- [65] Li, L. (2010). Dimension reduction for high dimensional data. In *Statistical Methods in Molecular Biology*, Ed. Bang, H., Zhou, X., Van Epps, H.L. and Mazumdar, M. Humana Press.

GRANTS

- ▷ NSF DMS-1613137. 09/2016 - 08/2019
Collaborative Research: Tensor Envelope Model - A New Approach for Regressions with Tensor Data.
Principle Investigator
- ▷ NIH R01AG034570. 09/2016 - 08/2021
Neural and Biochemical Mechanisms of Cognitive Aging
Co-Investigator (PI: William Jagust)
- ▷ NSF DMS-1310319. 07/2013 - 06/2016
Tensor Regressions and Applications in Neuroimaging Data Analysis.
Co-Principle Investigator (PI: Hua Zhou)
- ▷ NSF DMS-1106668. 07/2011 - 06/2014
New Dimension Reduction Approaches for Modern Scientific Data with High Dimensionality and Complex Structure.
Principle Investigator
- ▷ Research Grants Council of Hong Kong 01/2010 - 12/2011
On Inference and Variable Selection for Semiparametric Models with High Dimensional Predictors.
Co-Principle Investigator (PI: Lixing Zhu)
- ▷ NSF DMS-0706919. 09/2007 - 09/2010
Sufficient Dimension Reduction for Missing, Censored, and Correlated Data.
Principle Investigator

PRESENTATIONS

► **Invited Conference Talks**

- ▷ Joint Statistical Meetings, Denvor, CO 08/2019
- ▷ International Conference on Frontiers of Data Science, Hangzhou, China 05/2019
- ▷ Computational and Methodological Statistics Workshop, Pisa, Italy 12/2018
- ▷ Joint Statistical Meetings, Vancouver, Canada 08/2018
- ▷ Peter Hall Memorial Conference, Davis, CA 05/2018
- ▷ Joint Statistical Meetings, Baltimore, MD 08/2017
- ▷ ISI World Statistics Congress, Marrakech, Morocco 07/2017

- ▷ International Conference on Econometrics and Statistics, Hong Kong, China 06/2017
- ▷ ENAR, Washington, DC 03/2017
- ▷ ICSA International Conference, Shanghai, China 12/2016
- ▷ Joint Statistical Meetings, Chicago, IL 08/2016
- ▷ Second Annual Conference for Statistical Methods in Imaging, Aurora, CO 06/2016
- ▷ SAMSI Workshop on Challenges in Functional Connectivity Modeling and Analysis,
Durham, NC 04/2016
- ▷ Workshop on Mathematical and Statistical Challenges in Neuroimaging Data Analysis,
Banff, Canada 02/2016
- ▷ IMS International Conference on Statistics and Probability, Kunming, China 06/2015
- ▷ SRCOS Summer Research Conference, Carolina Beach, NC 06/2015
- ▷ Inaugural Conference for Statistical Methods in Imaging, Ann Arbor, MI 05/2015
- ▷ International Conference on Advances in Interdisciplinary Statistics and Combinatorics
Workshop on Big Data, Plenary Speaker, Greensboro, NC 10/2014
- ▷ ICSA and KISS Applied Statistics Symposium, Portland, OR 06/2014
- ▷ International Conference on Statistics and Probability, Chengdu, China 07/2013
- ▷ Workshop on Meeting the Challenges of High Dimension, Singapore City, Singapore
10/2012
- ▷ European Conference on Computational Biology, Basel, Switzerland 09/2012
- ▷ Second IMS Asia Pacific Rim Meeting, Tsukuba, Japan 07/2012
- ▷ Joint Statistical Meetings, Miami, FL 08/2011
- ▷ ICSA Applied Statistics Symposium, New York, NY 06/2011
- ▷ First Joint Biostatistics Symposium, Beijing, China 07/2010
- ▷ International Conference on Statistical Analysis of Complex Data, Kunming, China
07/2010
- ▷ ENAR, New Orleans, LA 03/2010
- ▷ Summer Research Conference, Jekyll Island, GA 06/2009
- ▷ Joint Statistical Meetings, Denver, CO 08/2008
- ▷ Workshop on Future Directions in High-Dimensional Analysis, Cambridge, UK 06/2008
- ▷ ICSA Applied Statistics Symposium, Piscataway, NJ 06/2008
- ▷ Current and Future Trends in Nonparametrics Conference, Columbia, SC 10/2007
- ▷ International Conference on Bioinformatics, Hangzhou, China 06/2007
- ▷ ICSA Applied Statistics Symposium, Raleigh, NC 06/2007
- ▷ Spring Research Conference, Technometrics Invited Session, Ames, IA 05/2007
- ▷ ENAR, IMS Invited Session, Tampa, FL 03/2006

▷ Quality and Productivity Research Conference, Minneapolis, MN 05/2005

► **Invited Seminar Talks**

▷ Department of Biostatistics, University of Michigan 11/2018

▷ Department of Statistics, University of California, Irvine 10/2017

▷ Department of Biostatistics, University of California, Los Angeles 10/2017

▷ Department of Biostatistics, University of Minnesota 10/2017

▷ Department of Statistics, Fudan University, China 07/2017

▷ Department of Applied Mathematics and Statistics, University of California, Santa Cruz
05/2017

▷ Department of Biostatistics, Columbia University 04/2017

▷ Department of Statistics, University of North Carolina, Chapel Hill 04/2016

▷ Department of Biostatistics, University of Washington 03/2016

▷ Department of Epidemiology and Biostatistics, University of California, San Francisco
10/2015

▷ Adobe, Inc., San Jose, CA 08/2015

▷ Department of Statistics, Southwestern University of Finance and Economics, China
07/2015

▷ Department of Mathematics, University of Electronic Science and Technology, China
07/2015

▷ Genentech, Inc., San Francisco, CA 05/2015

▷ Department of Statistics, University of California, Berkeley 09/2014

▷ Division of Biostatistics, University of California, Berkeley 01/2014

▷ Department of Statistics, Stanford University 03/2013

▷ Department of Applied Mathematics and Statistics, University of California, Santa Cruz
01/2013

▷ Marshall School of Business, University of Southern California 11/2012

▷ Department of Statistics, University of California, Davis 02/2012

▷ Division of Biostatistics, Stanford University 10/2011

▷ Center for Imaging and Neurodegenerative Diseases, San Francisco 09/2011

▷ Department of Biostatistics, Columbia University 04/2011

▷ Department of Environmental Medicine, New York University 04/2011

▷ Department of Statistics, University of Missouri 03/2011

▷ Department of Statistics and Applied Probability, National University of Singapore
06/2010

- ▷ Department of Statistics and Probability, Michigan State University 03/2010
- ▷ Department of Statistics, University of Illinois, Urbana Champaign 02/2010
- ▷ Department of Statistics, University of Toronto 11/2009
- ▷ School of Statistics, University of Minnesota 09/2009
- ▷ Department of Statistics, Stanford University 07/2009
- ▷ Booth School of Business, University of Chicago 05/2009
- ▷ The Methodology Center, Penn State University 02/2009
- ▷ Biostatistics Branch, National Institute of Environmental Health Sciences 10/2008
- ▷ School of Public Health, Biostatistics Program, Yale University 09/2008
- ▷ Department of Statistics, University of Virginia 04/2008
- ▷ Department of Statistical Science, Duke University 03/2008
- ▷ Department of Mathematics, Hong Kong Baptist University 12/2007
- ▷ Department of Statistics, University of North Carolina, Chapel Hill 12/2007
- ▷ Department of Statistics, Penn State University 11/2007
- ▷ Department of Statistics, Oregon State University 05/2007
- ▷ Department of Bioinformatics and Biostatistics, University of Louisville 04/2006
- ▷ Department of Statistics, University of Georgia 11/2005
- ▷ Department of Biostatistics, University of Minnesota 02/2005
- ▷ Department of Biostatistics, Johns Hopkins University 02/2005
- ▷ Department of Biostatistics, University of Washington 02/2005
- ▷ Department of Statistics, North Carolina State University 02/2005
- ▷ Department of Biostatistics, Emory University 02/2005
- ▷ Department of Mathematics and Statistics, University of Massachusetts, Amherst 01/2005
- ▷ Center for Statistical Sciences, Brown University 01/2005
- ▷ Department of Statistics, University of Illinois, Urbana Champaign 01/2005
- ▷ Department of Statistics, Northwestern University 01/2005
- ▷ Institute for Data Analysis and Visualization, University of California, Davis 11/2003

- ▶ **Invited Short Courses**
- ▷ Northeast Normal University, Statistics Graduate Summer Program 07/2013
- ▷ SAS Institute, JMP Group 05/2007

- ▶ **Contributed Conference Talks**
- ▷ Workshop on Model Selection and Related Areas, Vienna, Austria 07/2008

- ▷ Joint Statistical Meetings, Salt Lake City, UT 08/2007
- ▷ ENAR, Atlanta, GA 03/2007
- ▷ Joint Statistical Meetings, Seattle, WA 08/2006
- ▷ International Conference on Robust Statistics, Lisbon, Portugal 07/2006
- ▷ Joint Statistical Meetings, Minneapolis, MN 08/2005
- ▷ Joint Statistical Meetings, San Francisco, CA 08/2003
- ▷ INFORMS Annual Meeting, San Jose, CA 11/2002

TEACHING EXPERIENCE

- ▷ Big Data: A Public Health Perspective. UC Berkeley Spring, 2018, 2017, 2016, 2015
- ▷ Introduction to Multivariate Statistics. UC Berkeley Fall, 2017, 2016, 2015, 2014
- ▷ Advanced Topic: Big Data, a Statistical Perspective. NCSU Fall, 2013
- ▷ Nonlinear Models for Univariate and Multivariate Responses. NCSU Fall, 2013, 2010
- ▷ Statistical Multivariate Analysis. NCSU Spring, 2011, 2010, 2009
- ▷ Advanced Topic: Introduction to Dimension Reduction for Regression. NCSU
Fall, 2009, 2007
- ▷ Introduction to Probability and Distribution Theory. NCSU Spring, 2008, 2007
- ▷ Introduction to Statistical Inference and Regression. NCSU
Fall, 2009, Fall, 2008, Spring, 2006, Fall, 2005
- ▷ Introduction to Statistical Analysis. University of Minnesota Fall, 2002

CONSULTING EXPERIENCE

- ▷ Statistical Consulting Center, University of Minnesota Spring, 2001, Summer, 2002
- ▷ Statistical Consulting Center, 3M St Paul, MN (Intern) Summer 1999, Summer, 2000

PROFESSIONAL SERVICES

- ▷ Associate Editor, *Journal of the American Statistical Association*, 2014-present.
- ▷ Associate Editor, *Technometrics*, 2013-2018.
- ▷ Program Chair, American Statistical Association, Section on Statistics in Imaging, 2017
- ▷ Program Committee, ICSA Applied Statistics Symposium, Chicago, IL, 2017
- ▷ Session organizer for Joint Statistical Meeting, 2012, 2011, 2007; ICSA Applied Statistics Symposium, 2007; Quality and Productivity Research Conference, 2005