

## Lisha Chen (October, 2013)

CONTACT INFORMATION	<b>Department of Statistics</b> <b>Yale University</b> 24 Hillhouse Avenue New Haven, CT 06511 USA	<i>Phone:</i> +1-203-432-5785 <i>Fax:</i> +1-203-432-0633 <i>E-mail:</i> <a href="mailto:lisha.chen@yale.edu">lisha.chen@yale.edu</a> <i>WWW:</i> <a href="http://www.stat.yale.edu/~lc436/">www.stat.yale.edu/~lc436/</a> <i>Citizen of China</i>
RESEARCH INTERESTS	<ul style="list-style-type: none"> <li>• Data Mining and Machine Learning</li> <li>• Dimension Reduction and Data Visualization</li> <li>• Multidimensional Scaling</li> <li>• Multiple Response Regression</li> <li>• Variable Selection</li> <li>• Imbalance Learning</li> </ul>	
ACADEMIC POSITION	<b>Assistant Professor of Statistics</b> , Yale University <b>Research Fellow</b> , SAMSI, Research Triangle Park, NC	July 2006 - present July 2009 - June 2010
OTHER EMPLOYMENT	<b>Statistical Associate</b> , Strategic Information Services, Freddie Mac, Mclean, VA	June - August 2004
EDUCATION	<b>The Wharton School, University of Pennsylvania</b> , Philadelphia, PA Ph.D. in Statistics, Advisor: Andreas Buja <b>Beijing University</b> , Beijing, China B.S. in Statistics, Minor in Economics	2006  2001
PUBLICATIONS AND MANUSCRIPTS	[1] Buja, A., Swayne, D., Littman, M., Dean, N., Hofmann, H. and <b>Chen, L.</b> , 2008, Data Visualization with Multidimensional Scaling, <i>Journal of Computational and Graphical Statistics</i> , Vol. 17, Iss. 2; pg. 444-472. [2] <b>Chen, L.</b> and Buja, A., 2009, Local Multidimensional Scaling for Nonlinear Dimension Reduction, Graph Layout and Proximity Analysis, <i>Journal of American Statistical Association</i> , Vol. 104, No. 485; pg. 209-219. [3] Chawarska, K., Campbell, D., <b>Chen, L.</b> , Shic, F., Klin, A., and Chang, J., 2011, Early Generalized Overgrowth in Boys with Autism, <i>Archives of General Psychiatry</i> , 68(10):1021-1031. [4] <b>Chen, L.</b> and Huang, J., 2012, Sparse Reduced-Rank Regression for Simultaneous Dimension Reduction and Variable Selection, <i>Journal of American Statistical Association</i> , Vol. 107, No. 500; pg. 1533-1545. [5] <b>Chen, L.</b> and Buja, A., 2013, Stress Functions for Nonlinear Dimension Reduction, Proximity Analysis, and Graph Drawing, <i>Journal of Machine Learning Research</i> , Vol. 14, pg. 1145-1173. [6] <b>Chen, L.</b> , Dou, W. W., and Qiao, Z., 2013, Ensemble Subsampling for Imbalanced Multivariate Two-Sample Tests, to appear in <i>Journal of American Statistical Association</i> . [7] Tang, S., <b>Chen, L.*</b> , Tsui, K-W, and Doksum, K., 2014, Nonparametric Variable Selection in Classification: CATCH Algorithm, <i>Computational Statistics &amp; Data Analysis</i> , Vol. 72, pg. 158-175. *joint first author and corresponding author.	

	[8] <b>Chen, L.</b> , 2013, A Model-Free Variable Selection Procedure for Survival Data, under revision, <i>Lifetime Data Analysis</i> .	
	[9] <b>Chen, L.</b> and Huang, J., 2013, Sparse Reduced-Rank Regression with Covariance Estimation, submitted.	
MANUSCRIPTS IN PREPARATION	[10] Chawarska, K., Ye, S., and Chen, L., Latent Structure Analysis of Spontaneous Attention to Complex Social Scenes in Toddlers with Autism.	
	[11] Chen, L., Campbell, D., and Chang, J., Multidimensional Fused Lasso for Classification with Application to Autism Study Using Eye-tracking Data.	
WORK IN PROGRESS	[12] Ye, S. and Chen, L., Multivariate Regression with Block-structured Predictors.	
	[13] Chen, L., Dou, W. and Qiao, Z., Estimating Treatment Effects with Unbalanced Data.	
TEACHING EXPERIENCE	Department of Statistics, Yale University <ul style="list-style-type: none"> <li>• Data Mining and Machine Learning Spring 07, 08, 09, 11, 12, 13</li> <li>• Introductory Statistics Spring 13</li> <li>• Advanced Data Analysis Fall 06, 07, 08, 11, 12, 13</li> <li>• Theory of Statistics Spring 11, 12, 14</li> <li>• Dimension Reduction and Clustering Analysis Spring 09</li> </ul> Department of Statistics, University of Pennsylvania <ul style="list-style-type: none"> <li>• Probability Summer 03</li> </ul>	
STUDENT ADVISING	<ul style="list-style-type: none"> <li>• <b>Doctoral Advising</b> <p>Saier (Vivien) Ye, in progress, Statistics Department, Yale University.</p> <p>Dan Campbell (graduated May 2011), Statistics Department, Yale University, co-advisor with Joseph Chang.</p> </li> <li>• <b>Doctoral Committee</b> <p>Andrew Barthe (graduated summer 2012), Biomedical Engineering, Yale School of Medicine.</p> <p>Summer Han (graduated May 2009), Statistics Department, Yale University.</p> <p>Wei Qiu (graduated May 2007), Statistics Department, Yale University.</p> </li> <li>• <b>Undergraduate Advising</b> <p>Luke de Oliveira (directed reading), Applied Math Major, Yale University.</p> <p>James Mendelson (graduated May 2013), Applied Math Major, Yale University.</p> <p>Akshay Kumar (graduated May 2013), Applied Math Major, Yale University.</p> <p>Freshmen Advising, Saybrook College, Yale University, 2012-2013.</p> <p>Kersi Shroff (graduated May 2009), Computer Science Major, Yale University.</p> <p>Dan Loewenhertz (graduated May 2009), Applied Math Major, Yale University.</p> </li> </ul>	

## TALKS

- UF Winter Workshop Dimension Reduction and High Dimensional Inference: Theory and Applications, Gainesville, FL (invited), Jan 14.
- Department of Management Science, School of Business Administration, University of Miami, Coral Gables, FL (invited), Nov 13.
- Department of Statistics and Biostatistics, Rutgers University, Piscataway, NJ (invited), Oct 13.
- Division of Biostatistics, Department of Population Health, New York University School of Medicine, New York, NY (invited), Oct 13.
- Joint Statistical Meetings, Montreal, Canada (topic contributed), Aug 13.
- 2013 Classification Society Annual Meeting, Milwaukee, WI (keynote co-presenter), Jun 13.
- Joint Statistical Meetings, San Diego, CA (contributed), Aug 12.
- The 26th New England Statistics Symposium, Boston, MA (invited), Jun 12.
- Joint Statistical Meetings, Vancouver, Canada (invited), Aug 10.
- Statistics Department, NC State, Raleigh, NC (invited), Oct 09.
- Statistics Department, UNC, Chapel Hill, NC (invited), Sept 09.
- Statistics Department, Penn State University, State College, PA (invited), Sept 09.
- The 1st International Conference on Interface between Statistics and Engineering, Beijing, China (invited), Jul 09.
- The 1st IMS-Asia Pacific Rim Meeting, Seoul, Korea (invited), Jun 09.
- Biostatistics Division, Yale School of Public Health (invited), Nov 08.
- Department of Mathematics and Statistics, Boston University, Boston, MA (invited), Oct 08.
- Statistics Department, University of Connecticut, Storrs, CT (invited), Sept 08.
- Joint Statistical Meetings, Salt Lake City, UT (topic contributed), Aug 07.
- Tenth Meeting of New Researcher in Statistics and Probability (contributed), Salt Lake City, Jul 07.
- Applied Math Seminar at Yale, New Haven, CT (invited), Feb 07.
- Joint Statistical Meetings, Seattle, WA (topic contributed), Aug 06.
- Department of Statistics, University of Pittsburgh/CMU/University of Michigan/Yale University (invited), Feb 06.
- Joint Annual Meeting of the Interface and the Classification Society of North America, St. Louis, MO (contributed), Jun 05.

## REFeree SERVICE

- *Journal of the Royal Statistical Society: Series B*
- *Annals of Statistics*
- *Journal of American Statistical Association*
- *Journal of Computational and Graphical Statistics*
- *Statistical Science*
- *Computational Statistics and Data Analysis*
- *Journal of Classification*
- *Statistics and Computing*
- *IEEE InfoVis 2007 Papers Program*
- *IEEE Transactions on Neural Networks*
- *AI and Statistics 2011*
- *IEEE Transactions on Signal Processing*
- *Artificial Intelligence*

## PROFESSIONAL SERVICE

- Serve on NSF Statistics Panel (one time).

## DEPARTMENTAL SERVICE

- Create undergraduate statistics major at Yale with Joseph Chang, 08-09.
- Junior faculty search committee diversity representative, 12-13.
- Departmental seminar organizer, 07-08, 08-09, 12-13.

- Graduate program admission committee, Spring 08, 09, 11, 12, 13.

#### AWARDS

- Donald S. Murray Prize 2005  
Awarded to the best teaching assistant in the Department of Statistics, University of Pennsylvania.
- Outstanding Student Scholarship for academic achievement 2000
- An-Tai Scholarship for academic achievement 1999
- Hua-Wei Scholarship for academic achievement 1998