Statistics Group at Peking University

Wei Lin School of Mathematical Sciences Center for Statistical Science Peking University

The University of Melbourne August 26, 2015





- Research and teaching in statistics started at PKU
 - Pao-Lu Hsu appointed as Professor of Mathematics in 1940



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- A course in mathematical statistics offered in the 1940s



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- A course in mathematical statistics offered in the 1940s
- A seminar on limit theory run in the early 1950s



- Pao-Lu Hsu appointed as Professor of Mathematics in 1940
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- Division of Probability and Statistics established in 1956



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- Division of Probability and Statistics established in 1956
 - Pao-Lu Hsu as the founding director



Research and teaching in statistics started at PKU

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Division of Probability and Statistics established in 1956

- Pao-Lu Hsu as the founding director
- Following the pattern of the Moscow State University



Research and teaching in statistics started at PKU

- Pao-Lu Hsu appointed as Professor of Mathematics in 1940
- A course in mathematical statistics offered in the 1940s
- A seminar on limit theory run in the early 1950s

Division of Probability and Statistics established in 1956

- Pao-Lu Hsu as the founding director
- Following the pattern of the Moscow State University
- First class consisting of more than 50 students and a few instructors from three universities





Turned into the Department of Probability and Statistics in 1985

39 faculty and staff members at its peak



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- Institute of Mathematical Statistics formed in 1991, with Jiading Chen as the founding director



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- Institute of Mathematical Statistics formed in 1991, with Jiading Chen as the founding director
- Joined the Department of Mathematics to form the School of Mathematical Sciences in 1995



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- Joined the Department of Mathematics to form the School of Mathematical Sciences in 1995
 - Zhi Geng as the new department chair



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- Institute of Mathematical Statistics formed in 1991, with Jiading Chen as the founding director
- Joined the Department of Mathematics to form the School of Mathematical Sciences in 1995
 - Zhi Geng as the new department chair
 - Department of Financial Mathematics established within the school, with some faculty members from the department





- Center for Statistical Science established in 2010
 - Succeeding the Institute of Mathematical Statistics



- Succeeding the Institute of Mathematical Statistics
- Song Xi Chen and Zhi Geng as co-chairs



- Succeeding the Institute of Mathematical Statistics
- Song Xi Chen and Zhi Geng as co-chairs
- Coordinating statistical research efforts across campus



- Succeeding the Institute of Mathematical Statistics
- Song Xi Chen and Zhi Geng as co-chairs
- Coordinating statistical research efforts across campus
 - Department of Probability and Statistics and Department of Financial Mathematics in the School of Mathematical Sciences

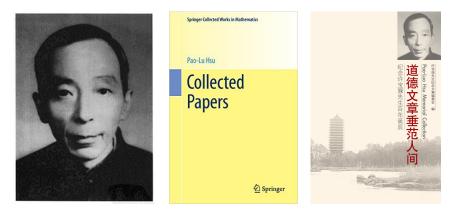


- Succeeding the Institute of Mathematical Statistics
- Song Xi Chen and Zhi Geng as co-chairs
- Coordinating statistical research efforts across campus
 - Department of Probability and Statistics and Department of Financial Mathematics in the School of Mathematical Sciences
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- Song Xi Chen and Zhi Geng as co-chairs
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 - Department of Business Statistics and Econometrics in the Guanghua School of Management
 - School of Life Sciences, School of Public Health, etc.





Pao-Lu Hsu (1910-1970)



Statistics Group at PKU 4/30

Website: www.math.pku.edu.cn/teachers/Hsu/



- Website: www.math.pku.edu.cn/teachers/Hsu/
- Memorial articles



- Website: www.math.pku.edu.cn/teachers/Hsu/
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 - Four articles by T. W. Anderson, K. L. Chung and E. L. Lehmann, Ann. Statist., 1979



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 - Four articles by T. W. Anderson, K. L. Chung and E. L. Lehmann, Ann. Statist., 1979
 - "Pao-Lu Hsu (Xu, Bao-lu): The Grandparent of Probability and Statistics in China," by Dayue Chen and Ingram Olkin, *Statistical Science*, 2012



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 - "Pao-Lu Hsu (Xu, Bao-lu): The Grandparent of Probability and Statistics in China," by Dayue Chen and Ingram Olkin, *Statistical Science*, 2012
- Events:
 - PKU Pao-Lu Hsu Lecture in Probability and Statistics: Shige Peng (2009), T. L. Lai (2010), Howell Tong (2011), Jeff Wu (2012), Wing Hung Wong (2013), Ching-Shui Cheng (2014), David Aldous (2015)



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 - Tsinghua University Pao-Lu Hsu Lecture since 2011
 - Pao-Lu Hsu Award presented every three years by ICSA: Jianqing Fan, Xiao-Li Meng and Bin Yu (2012)



Faculty members joining before 2010: Xiangzhong Fang (Department Chair), Mingyao Ai (Group Director), Minghua Deng, Zhi Geng, Dongfeng Li, Liping Liu, Junshan Shen, Wanlong Sun, Yuan Yao Song Xi Chen (Guanghua), Hansheng Wang (Guanghua)



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Recent faculty recruitments through the Center: Jinzhu Jia (2011), Ruibin Xi (2012), Hui Huang (2013), Wei Lin (2014) Yundong Tu (2012, Guanghua), Xiaojun Song (2014, Guanghua) Cheng Li (2013, Life Sciences)



Faculty members joining before 2010: Xiangzhong Fang (Department Chair), Mingyao Ai (Group Director), Minghua Deng, Zhi Geng, Dongfeng Li, Liping Liu, Junshan Shen, Wanlong Sun, Yuan Yao Song Xi Chen (Guanghua), Hansheng Wang (Guanghua)

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- Postdocs: currently none



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- Postdocs: currently none
- Students: about 10 Ph.D. students, 30 Master of Applied Statistics students, and 40 undergraduate majors each year



Faculty Research Interests

Causal inference: Zhi Geng, Jinzhu Jia, Wei Lin



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- Experimental design: Mingyao Ai



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- Biostatistics and bioinformatics: Minghua Deng, Zhi Geng, Hui Huang, Wei Lin, Ruibin Xi



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- Network analysis: Zhi Geng, Minghua Deng, Jinzhu Jia, Wei Lin, Hansheng Wang, Yuan Yao



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- Spatial and functional data analysis: Hui Huang



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- High-dimensional inference and machine learning: Song Xi Chen, Hansheng Wang, Jinzhu Jia, Wei Lin, Yuan Yao
- Network analysis: Zhi Geng, Minghua Deng, Jinzhu Jia, Wei Lin, Hansheng Wang, Yuan Yao
- Spatial and functional data analysis: Hui Huang
- Statistical software: Dongfeng Li





Ph.D., Australian National University, 1993





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 - Research interests: inference for high dimensional data, inference for stochastic processes, multiple system surveys for US Census, empirical likelihood, analysis on missing data





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 - Research interests: inference for high dimensional data, inference for stochastic processes, multiple system surveys for US Census, empirical likelihood, analysis on missing data
- Fellow of ASA and IMS





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 - Fellow of ASA and IMS
- Associate Editor of Annals of Statistics and Journal of Business and Economic Statistics



h-index 22, i10-Index 36, average citations per article 16.7 Recent publications

- Qiu, Y. and Chen, S.X. (2015). Band width selection for high dimensional covariance matrix estimation. J. Amer. Statist. Assoc., to appear.
- Chang, J., Chen, S. X. and Chen, X. (2015). High dimensional generalized empirical likelihood for moment restrictions with dependent data. *J. Economet.*, 185, 283–304.
- Zhong, P.-S., Chen, S. X. and Xu, M. (2013). Tests alternative to higher criticism for high dimensional means under sparsity and column-wise dependence, *Ann. Statist.*, 41, 2820–2851.





Ph.D., Kyushu University, 1989





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- Research interests: causal inference, mathematical statistics, biostatistics, causal networks, graphical models





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- Research interests: causal inference, mathematical statistics, biostatistics, causal networks, graphical models
- National Science Fund for Distinguished Young Scholars, 1998





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- Chair of IMS China





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- Research interests: causal inference, mathematical statistics, biostatistics, causal networks, graphical models
- National Science Fund for Distinguished Young Scholars, 1998
- Chair of IMS China
- Associate Editor of CSDA and Statistica Sinica



Recent publications

- Ding, P. and Geng, Z. (2014). Identifiability of subgroup causal effects in randomized experiments with nonignorable missing covariates. *Statist. Med.*, 33, 1121–1133.
- Deng, K., Geng, Z. and Liu, J. S. (2014). Association pattern discovery via theme dictionary models. J. R. Statist. Soc. Ser. B, 76, 319–347.
- Deng, W., Geng, Z. and Li, H. (2013). Learning local directed acyclic graphs based on multivariate time series data. *Ann. Appl. Statist.*, 7, 1663–1683.





Ph.D., University of Wisconsin-Madison, 2001





- Ph.D., University of Wisconsin-Madison, 2001
- Research interests: ultra-high dimensional data analysis, network data analysis, statistical application in e-commerce





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- Fellow of ASA





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- National Science Fund for Distinguished Young Scholars, 2015
- Fellow of ASA
- Associate Editor of *AOS*, *JASA*, *JBES*, *CSDA*, etc.



Recent publications

- Huang, D., Yin, J., Shi, T. and Wang, H. (2015). A statistical model for social network labeling. *JBES*, to appear.
- Pan, R., Wang, H. and Li, R. (2015). Ultrahigh dimensional multi-class linear discriminant analysis by pairwise sure independence screening. *JASA*, to appear.
- Lan, W., Luo, R., Tsai, C.-L., Wang, H. and Yang, Y. (2015). Testing the diagonality of a large covariance matrix in a regression setting, *JBES*, 33, 76–86.





Ph.D., Nankai University, 2003





- Ph.D., Nankai University, 2003
 - Research interests: design and analysis of experiments, computer experiments, high-dimensional data analysis, applied statistics and probability





- Ph.D., Nankai University, 2003
 - Research interests: design and analysis of experiments, computer experiments, high-dimensional data analysis, applied statistics and probability
- Associate Editor of Journal of Statistical Planning and Inference and Statistics and Probability Letters



Recent publications

- Ai, M., Kong, X. and Li, K. (2015). A general theory for orthogonal array based Latin hypercube designs. *Statistica Sinica*, to appear.
- Li, K., Zheng, W. and Ai, M. (2015). Optimal designs for the proportional interference model. Ann. Statist., 43, 1596–1616.
- Qian, Peter Z. G., Ai, M., Hwang, Y. and Su, H. (2014). Asymmetric nested lattice samples. *Technometrics* 56, 46–54.



Minghua Deng, Professor



Ph.D., Peking University, 1998



Minghua Deng, Professor



- Ph.D., Peking University, 1998
- Research interests: DNA sequence analysis, preprocessing of gene chip data, gene expression data analysis, gene regulatory network analysis, association study, eQTL data analysis



Minghua Deng, Professor

Recent publications

- Chen, J.-Y. et al. (2014). RNA editome in rhesus macaque shaped by purifying selection. *PLoS Genet.*, 10, e1004274.
- Ren, J. et al. (2013). Multiple alignment-free sequence comparison. *Bioinformatics*, 29, 2690–2698.
- Wang, L., Zheng, W., Zhao, H. and Deng, M. (2013). Statistical analysis reveals co-expression patterns of many pairs of genes in yeast are jointly regulated by interacting loci. *PLoS Genet.*, 9, e1003414.



Xiangzhong Fang, Professor



Ph.D., Peking University, 1996



Xiangzhong Fang, Professor



- Ph.D., Peking University, 1996
- Research interests: survival analysis and reliability theory



Xiangzhong Fang, Professor



- Ph.D., Peking University, 1996
- Research interests: survival analysis and reliability theory
- Took charge of the research project on the reliability and safety evaluation system for CZ-2F Rocket, which was a part of the spacecraft program of China



Liping Liu, Professor



Ph.D., University of Oslo, 1997



Statistics Group at PKU 19 / 30

Liping Liu, Professor



- Ph.D., University of Oslo, 1997
- Research interests: survival analysis, capture-recapture





Ph.D., UC Berkeley, 2006



Statistics Group at PKU 20 / 30



- Ph.D., UC Berkeley, 2006
- Postdoc, Stanford University, 2006–2009





- ▶ Ph.D., UC Berkeley, 2006
- Postdoc, Stanford University, 2006–2009
- Research interests: online learning algorithms, statistical machine learning, topological and geometrical methods in data analysis



Recent publications

- Tarres, P. and Yao, Y. (2014). online learning as stochastic approximations of regularization paths: optimality and almost-sure convergence. *IEEE Trans. Information Theory*, 60, 5716–5735.
- Xu, Q., Xiong, J., Huang, Q. and Yao, Y. (2014). Online HodgeRank on random graphs for crowdsourceable QoE evaluation. *IEEE Trans. Multimedia*, 16, 373–386.
- ► Jiang, X., Yao, Y., Liu, H. and Guibas, L. (2014). Compressive network analysis. *IEEE Trans. Automatic Control*, 59, 2946–2961.





Ph.D., Peking University, 2009



Statistics Group at PKU 22 / 30



- Ph.D., Peking University, 2009
- Postdoc, UC Berkeley, 2009–2010





- Ph.D., Peking University, 2009
- Postdoc, UC Berkeley, 2009–2010
- Research interests: high dimensional data analysis, statistical machine learning, graphical models, text analysis



Recent publications

- Jia, J. and Rohe, K. (2015). Preconditioning the Lasso for sign consistency. *Electron. J. Statist.*, 9, 1150–1172.
- Jia, J., Miratrix, L., Yu, B., Gawalt, B., El Ghaoui, L., Barnesmoore, L. and Clavier, S. (2014). Concise comparative summaries (CCS) of large text corpora with a human experiment. *Ann. Appl. Statist.*, 8, 499–529.
- He, Y., Jia, J. and Yu, B. (2013). Reversible MCMC on Markov equivalence classes of sparse directed acyclic graphs. *Ann. Statist.*, 41, 1742–1779.





Ph.D., Washington University in St. Louis, 2009



Statistics Group at PKU 24 / 30



Ph.D., Washington University in St. Louis, 2009

Postdoc, Harvard, 2009–2012





- Ph.D., Washington University in St. Louis, 2009
- Postdoc, Harvard, 2009–2012
- Research interests: statistical analysis of next-generation sequencing data, bioinformatics, cancer genomics, statistical computing, massive data analysis, variable selection methods, Bayesian statistics, MCMC theory and applications





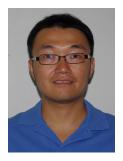
- Ph.D., Washington University in St. Louis, 2009
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- The Recruitment Program of Global Experts for Young Scholars, 2013



Recent publications

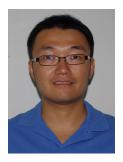
- Yang, L., Luquette, L. J., Gehlenborg, N., Xi, R. et al. (2013). Diverse mechanisms of somatic structural variations in human cancer genomes. *Cell*, 153, 919–929.
- Kim, T. M., Xi, R., Luquette, L. J., Park, R. W., Johnson, M.D. and Park, P. J. (2013). Functional genomic analysis of chromosomal aberrations in a compendium of 8000 cancer genomes. *Genome Research*, 23, 217–227.
- Tan, X., Hu, L., Luquette, L. J., Gao, G., Liu, Y., Qu, H., Xi, R., Lu, Z. J., Park, P. J., Elledge, S. J. (2012). Systematic identification of synergistic drug pairs targeting HIV. *Nature Biotechnology*, 30, 1125–1130.





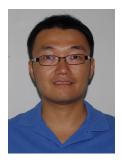
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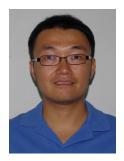
- Ph.D., University of Maryland, Baltimore County, 2010
- Postdoc, Yale University, 2010–2012; University of Miami, 2012–2013





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- Postdoc, Yale University, 2010–2012; University of Miami, 2012–2013
- Research interests: functional/longitudinal data analysis, spatial statistics, applications in biomedical imaging analysis and epidemiology





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Recent publications

- Huang, H., Li, Y. and Guan, Y. (2014). Joint modeling and clustering of paired generalized longitudinal processes in cocaine dependent treatment data. J. Amer. Statist. Assoc., 109, 1412–1424.
- Huang, H., Ma, X., Waagepetersen, R., Holford, T., Wang, R. and Guan, Y. (2014). A new estimation approach for combining spatial epidemiology data obtained from different sources. *J. Amer. Statist. Assoc.*, 109, 11–23.





Ph.D., University of Southern California, 2011



Statistics Group at PKU 28 / 30



- Ph.D., University of Southern California, 2011
- Postdoc, University of Pennsylvania, 2011–2014





- Ph.D., University of Southern California, 2011
- Postdoc, University of Pennsylvania, 2011–2014
- Research interests: high-dimensional inference, big data analysis, causal inference, survival analysis, compositional data analysis, statistical genetics and genomics





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- Postdoc, University of Pennsylvania, 2011–2014
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- The Recruitment Program of Global Experts for Young Scholars, 2014



Recent publications

- Lin, W., Feng, R. and Li, H. (2015). Regularization methods for high-dimensional instrumental variables regression with an application to genetical genomics. *J. Amer. Statist. Assoc.*, 110, 270–288.
- Lin, W., Shi, P., Feng, R. and Li, H. (2014). Variable selection in regression with compositional covariates. *Biometrika*, 101, 785–797.
- Lin, W. and Lv, J. (2013). High-dimensional sparse additive hazards regression. J. Amer. Statist. Assoc., 108, 247–264.



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 A new English website is due this October



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- Short courses and conferences



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 - New Researchers Conference on High-Dimensional Statistics in the Age of Big Data, June 27–28, 2015



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- Working group on the spatio-temporal analysis of air pollution in China, led by Song Xi Chen, Hui Huang and Wei Lin For 1st report, see the AMS booklet; 2nd report due end of year



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THANK YOU!

