

Publications:

- Zhang, C.-H. (1986). The lower limit of a normalized random walk. *Ann. Probab.* **14** 560-581.
- Chow, Y. S. and Zhang, C.-H. (1986). A note on Feller's strong law of large numbers. *Ann. Probab.* **14** 1088-1094.
- Robbins, H. and Zhang, C.-H. (1986). Maximum likelihood estimation in regression with uniform errors. In *Adaptive Statistical Procedures and Related Topics*, J. Van Ryzen, Ed., Institute of Mathematical Statistics, Lecture Notes-Monograph Series, Vol. **8**, pp. 365-385.
- Zhang, C.-H. (1988). A nonlinear renewal theory. *Ann. Probab.* **16** 793-824.
- Robbins, H. and Zhang, C.-H. (1988). Estimating a treatment effect under biased sampling. *Proc. Nat. Acad. Sci. USA* **85** 3670-3672.
- Zhang, C.-H. (1989). A renewal theory with varying drift. *Ann. Probab.* **17** 723-736.
- Robbins, H. and Zhang, C.-H. (1989). Estimating the superiority of a drug to a placebo when all and only those patients at risk are treated with the drug. *Proc. Nat. Acad. Sci. USA* **86** 3003-3005.
- Zhang, C.-H. (1990). Fourier methods for estimating mixing densities and distributions. *Ann. Statist.* **18** 806-831.
- Robbins, H. and Zhang, C.-H. (1991). Estimating a multiplicative treatment effect under biased allocation. *Biometrika* **78** 349-354.
- Li, Z. and Zhang, C.-H. (1992). Asymptotically efficient allocation rules for two Bernoulli populations. *J. Roy. Statist. Soc. B* **54** 609-616.
- Vardi, Y. and Zhang, C.-H. (1992). Large sample study of empirical distributions in a random-multiplicative censoring model. *Ann. Statist.* **20** 1022-1039.
- Gu, M. G. and Zhang, C.-H. (1993). Asymptotic properties of self-consistent estimators based on doubly censored data. *Ann. Statist.* **21** 611-624.
- Maguluri, G. and Zhang, C.-H. (1994). Estimation in the mean residual life regression model. *J. Roy. Statist. Soc. B* **56** 477-489.
- Huang, Y. and Zhang, C.-H. (1994). Estimating a monotone density from censored observations. *Ann. Statist.* **22** 1256-1274.
- Klass, M. J. and Zhang, C.-H. (1994). On the almost sure minimal growth rate of partial sum maxima. *Ann. Probab.* **22** 1857-1878.
- Zhang, C.-H. (1995). On estimating mixing densities in discrete exponential family models. *Ann. Statist.* **23** 929-945.
- Tsai, W.-Y. and Zhang, C.-H. (1995). Asymptotic properties of nonparametric maximum likelihood estimator for interval-truncated data. *Scand. J. Statist.* **22** 361-370.

- Loh, W.-L. and Zhang, C.-H. (1996). Global properties of kernel estimators for mixing densities in exponential family models for discrete variables. *Statistica Sinica* **6** 561-578.
- Teicher, H. and Zhang, C.-H. (1996). A decomposition for some *U*-type statistics. *J. Theor. Probab.* **9** 161-170.
- Giné, E. and Zhang, C.-H. (1996). On integrability in the LIL for degenerate *U*-statistics. *J. Theor. Probab.* **9** 385-412.
- Zhang, C.-H. (1996). Strong law of large numbers for sums of products. *Ann. Probab.* **24** 1589-1615.
- Zhang, C.-H. and Li, X. (1996). Linear regression with doubly censored data. *Ann. Statist.* **24** 2720-2743.
- Behr, T.M., Sharky, R.M., Juweid, M.E., Dunn, R.M., Ying, Z., Zhang, C.-H., Siegel, J.A., Gold, D.V. and Goldenberg, D.M. (1996). Factors influencing the pharmacokinetics, dosimetry, and diagnostic accuracy of radioimmunodetection and radioimmunotherapy of CEA-expressing tumors. *Cancer Res.* **56** 1805-1816.
- Zhang, C.-H. (1997). Empirical Bayes and compound estimation of normal means. *Statistica Sinica* **7** 181-194.
- Loh, W.-L. and Zhang, C.-H. (1997). Estimating mixing densities in exponential family models for discrete variables. *Scand. J. Statist.* **24** 15-32.
- Behr, T.M., Sharky, R.M., Juweid, M.E., Dunn, R.M., Vagg, R., Ying, Z., Zhang, C.-H., Swayne, L.C., Vardi, Y., Siegel, J.A. and Goldenberg, D.M. (1997). Phase I/II clinical cancer radioimmunotherapy with a ^{131}I -labelled anti-CEA murine IgG monoclonal antibody. *J. Nucl. Med.* **38** 858-870.
- Chen, T.T. and Zhang, C.-H. (1997). An invariant selection rule for multiple-treatment trials with linear prior preference. *Statistica Sinica*. **7** 595-606.
- Bai, Z., Cheng, P.E. and Zhang, C.-H. (1997). An extension of the Hardy-Littlewood strong law. *Statistica Sinica* **7** 923-928.
- Jeweid, M.E., Zhang, C.-H., Blumenthal, R.D., Sharky, R.M., Dunn, R.M., Dunlop, D. and Goldenberg, D.M. (1997). Factors influencing hematologic toxicity of radioimmunotherapy with ^{131}I -labelled anti-carcinoembryonic antigen antibodies. *Cancer Suppl.* **80** 2749-2753.
- Brown, L. D. and Zhang, C.-H. (1998). Asymptotic nonequivalence of nonparametric experiments when the smoothness index is 1/2. *Ann. Statist.* **26** 279-287.
- Teicher, H. and Zhang, C.-H. (1998). Moments of some stopping rules. *J. London Math. Soc.* **57** 503-512.
- Li, G. and Zhang, C.-H. (1998). Linear regression with interval censored data. *Ann. Statist.* **26** 1306-1327.
- Zhang, C.-H. (1999). Unbiased estimation of a lattice mixing distribution and the characteristic function of a general mixing distribution. *Sankhyā A* **61** 101-112.

- Zhang, C.-H. (1999). Sub-Bernoulli functions, moment inequalities and strong laws for positive and symmetrized U -statistics. *Ann. Probab.* **27** 432-453.
- Vardi, Y. and Zhang, C.-H. (1999). Reconstruction of binary images from limited projections via the EM algorithm. In *Discrete Tomography: Foundations, Algorithms and Applications*, G.T. Herman and A. Kuba Eds., Birkhäuser, Boston, pp. 297-316.
- Stein, R., Juweid, M.E., Zhang, C.-H. and Goldenberg, D.M. (1999). Assessment of combined radioimmunootherapy and chemotherapy for treatment of medullary thyroid cancer. *Clinical Cancer Research Suppl.* **5** 3199-3206.
- Jeweid, M.E., Zhang, C.-H., Blumenthal, R.D., Hajjar, G., Sharky, R.M. and Goldenberg, D.M. (1999). Prediction of hematologic toxicity after radioimmunootherapy with ^{131}I -labelled anticarcinoembryonic antigen monoclonal antibodies. *J. Nuclear Medicine* **40** 1609-1616.
- Bárány, I., Rote, G., Steiger, W. and Zhang, C.-H. (2000). A central limit theorem for convex chains in the square. *Discrete and Computational Geometry* **23** 35-50.
- Vardi, Y. and Zhang, C.-H. (2000). The multivariate L_1 -median and associated data depth. *Proc. Nat. Acad. Sci. USA*. **97** 1423-1426. Tech. Rep. 99-006, Dept. Statistics, Rutgers University, Piscataway, New Jersey 08854.
- Fuh, C.-D. and Zhang, C.-H. (2000). Poisson equation, moment inequalities and quick convergence for Markov random walks. *Stoch. Proc. Appl.* **87** 53-67.
- Shepp, L. and Zhang, C.-H. (2000). Fast functional magnetic resonance imaging via prolate wavelets. *Appl. Comput. Harmonic Analysis* **9** 99-119.
- Robbins, H. and Zhang, C.-H. (2000). Efficiency of the U,V method of estimation. *Proc. Nat. Acad. Sci. USA*. **97** 12976-12979.
- Lindquist, M., Yang, Q. X., Zhang, C.-H., Demeure, R. J., Smith, M. B. and Shepp, L. (2000). ROI tailored k-space sampling and a 2D prolate spheroidal wave function filter: reduction of spectral contamination in spectroscopic imaging. In *Proceedings of the 8th ISMRM Annual Meeting*, Denver, 2000, 1842.
- Vardi, Y. and Zhang, C.-H. (2001). A modified Weiszfeld algorithm for the Fermat-Weber location problem. *Math. Programming* **90** 559-566. Tech. Rep. 99-010, Dept. Statistics, Rutgers University, Piscataway, New Jersey 08854.
- Zhang, C.-H. (2001). Some moment and exponential inequalities for V -statistics with bounded kernels. *J. Theor. Probab.* **14** 511-525. Tech. Rep. 99-004, Dept. Statistics, Rutgers University, Piscataway, New Jersey 08854.
- Zhang, C.-H. (2001). Discussion on “Inference for semiparametric models: some questions and an answer” by P.J. Bickel and J. Kwon. *Statistica Sinica* **11** 941-945.
- Shoung, J.-M. and Zhang, C.-H. (2001). Least squares estimators of the mode of a unimodal regression function. *Ann. Statist.* **29** 648-665 Tech. Rep. 99-005, Dept. Statistics, Rutgers University, Piscataway, New Jersey 08854.

- Vardi, Y., Ying, Z. and Zhang, C.-H. (2001). Two-sample tests for growth curves under dependent right censoring. *Biometrika* **88** 949-960. Tech. Rep. 99-009, Dept. Statistics, Rutgers University, Piscataway, New Jersey 08854.
- Zhang, C.-H. (2002). Risk bounds in isotonic regression. *Ann. Statist.* **30** 528-555. Tech. Rep. 99-003, Dept. Statistics, Rutgers University, Piscataway, New Jersey 08854.
- Brown, L. D. Cai, T. T., Low, M. G. and Zhang, C.-H. (2002). Asymptotic equivalence theory for nonparametric regression with random design. *Ann. Statist.* **30** 688-707. Coupling inequalities for some random design matrices and asymptotic equivalence of nonparametric regression and white noise. Tech. Rep. 96-020, Dept. Statistics, Rutgers University, Piscataway, New Jersey 08854.
- Tian, X., Vardi, Y. and Zhang, C.-H. (2002). L_1 -depth, depth relative to a model, and robust regression. In *Statistical Data Analysis Based on the L_1 -Norm and Related Methods*, Y. Dodge, Ed., Birkhäuser, Boston, pp. 285-299.
- Jörnsten, R., Vardi, Y. and Zhang, C.-H. (2002). A robust clustering method and visualization tool based on data depth. In *Statistical Data Analysis Based on the L_1 -Norm and Related Methods*, Y. Dodge, Ed., Birkhäuser, Boston, pp. 353-366.
- Jörnsten, R., Vardi, Y. and Zhang, C.-H. (2002). On the bitplane compression of microarray images. In *Statistical Data Analysis Based on the L_1 -Norm and Related Methods*, Y. Dodge, Ed., Birkhäuser, Boston, pp. 415-425.
- Levin, B., Robbins, H. and Zhang, C.-H. (2002). Mathematical aspects of estimating two treatment effects and a common variance in an assured allocation design. *J. Statist. Planning & Inference* **108** 255-262.
- Yang, Q.X., Lindquist, M.A., Shepp, L., Zhang, C.-H., Wang, J. and Smith, M.B. (2002). Two dimensional prolate spheroidal wave functions for MRI. *J. Magnetic Resonance* **158** 43-51.
- Vardi, Y. and Zhang, C.-H. (2002). On the multivariate Rasch model: assessing collaboration in multiple choice tests. *J. Iranian Statist. Soc.* **1** 111-126.
- Hajjar, G., Sharkey, R.M., Burton, J., Zhang, C.-H., Yeldell, D., Matthies, A., Alavi, A., Losman, M.J., Brenner, A., and Goldenberg, D. (2002). Phase I radioimmunotherapy trial with iodine-131-labelled humanized MN-14 anti-carcinoembryonic antigen monoclonal antibody in patients with metastatic gastrointestinal and colorectal cancer. *Clin. Colorectal Cancer* **2** 31-42.
- Zhang, C.-H. (2003). Compound decision theory and empirical Bayes methods. *Ann. Statist.* **31** 379-390.
- Melnik, O., Vardi, Y. and Zhang, C.-H. (2003). Algorithms for combining classifiers with applications to face recognition. In *Proceedings of the Biometrics Consortium Conference (BCCC)*, September 22nd-24th, 2003 Washington D.C.
- Melnik, O., Vardi, Y. and Zhang, C.-H. (2004). Mixed group ranks: preference and confidence in classifier combination. *IEEE Trans. Pattern Analysis and Machine Intelligence*, **26** 973-981.

Brown, L. D. Carter, A.V., Low, M. G. and Zhang, C.-H. (2004). Asymptotic equivalence theory for a Poisson process with variable intensity. *Ann. Statist.* **32** 2074-2097.

Zhang, C.-H. (2005). General empirical Bayes wavelet methods and exactly adaptive minimax estimation. *Ann. Statist.* **33** 54-100. General empirical Bayes wavelet methods. Tech. Rep. 2000-007, Dept. Statistics, Rutgers University, Piscataway, New Jersey 08854.

Melnik, O., Vardi, Y. and Zhang, C.-H. (2005). A probability model for combining ranks. In *Multiple Classifier Systems: Proceedings of the Sixth International Workshop, MCS 2005*, N.C. Oza, R. Polikar, J. Kittler, et al. Eds., Springer-Verlag, Berlin Heidelberg, (Lecture Notes in Computer Science, Vol. **3541**) 64-73.
http://dx.doi.org/10.1007/11494683_7

Chen, R.W., Shepp, L.A., Yao, Y.-C. and Zhang, C.-H. (2005). On optimality of bold play for primitive casinos in the presence of inflation. *J. Appl. Probab.* **42** 121-137.

Huang, J. and Zhang, C.-H. (2005). Asymptotic analysis of a two-way semilinear model for microarray data. *Statistica Sinica* **15** 597-618.

Zhang, C.-H. (2005). Estimation of sums of random variables: examples and information bounds. *Ann. Statist.* **33** 2022-2041.

Huang, J. and Zhang, C.-H. (2005). Comment on “Semilinear high-dimensional model for normalization of microarray data: a theoretical analysis and partial consistency” by Fan, Peng and Huang. *J. Amer. Statist. Assoc.* **100** 800-804.

Huang, J., Wang, D. and Zhang, C.-H. (2005). A two-way semi-linear model for normalization and analysis of cDNA microarray data. *J. Amer. Statist. Assoc.* **100** 814-829.

Lindquist, M., Zhang, C.-H., Glover, G., Shepp, L. and Yang, Q. (2005). The generalized 2D-PSWF method for tracking dynamic signal with high temporal resolution. In *Proceedings of the 13th ISMRM Annual Meeting*, Miami, 2005, 2308.

Ying, Z. and Zhang, C.-H. (2006). A conversation with Yuan Shih Chow. *Statistical Science* **21** 99-112.

Huang, J. and Zhang, C.-H. (2006). A two-way semilinear model for normalization and analysis of microarray data. In *Springer Handbook of Engineering Statistics*, H. Pham Ed., Springer, New York, pp. 719-735.

Nagai, K. and Zhang, C.-H. (2006). Nonlinear renewal theorems for random walks with perturbations of intermediate order. In *Recent Developments in Nonparametric Inference and Probability: Festschrift for Michael Woodroofe*, R. Keener and J. Sun, Eds., Institute of Mathematical Statistics, Lecture Notes-Monograph Series **50** 164-175.

Zhang, C.-H. (2006). Upper limit of normalized random walks with infinite moments. In *Random Walks, Sequential Analysis and Related Topics*, C. A. Hsiung, Z. Ying and C.-H. Zhang, Eds., World Scientific, Singapore, pp. 157-168.

Hsiung, C.A., Ying, Z. and Zhang, C.-H. (2006). *Random Walks, Sequential Analysis and Related Topics*. World Scientific, Singapore.

- Lindquist, M.A., Zhang, C.-H., Glover, G., Shepp, L. and Yang, Q.X. (2006). A generalization of the two dimensional prolate spheroidal wave function method for non-rectilinear MRI data acquisition methods. *IEEE Trans. Image Processing* **15** (9) 2792-2804.
- Melnik, O., Vardi, Y. and Zhang, C.-H. (2007). Convex learners for RankBoost. *J. Machine Learning Research* **8** 791-812.
- Viger, F., Barrat, A., Dall'Asta, L., Zhang, C.-H. and Kolaczyk, E.D. (2007). What is the real size of a sampled network? The case of the Internet. *Physical Review E* **75** 056111 1-10.
- Vardi, Y. and Zhang, C.-H. (2007). Measures of network vulnerability. *IEEE Signal Processing Letters* **14** 313-316.
- Wang, D., Zhang, C.-H., Soares, M.B., and Huang, J. (2007). Systematic approaches for incorporating control spots and data quality information to improve normalization of cDNA microarray data. *J. Biopharmaceutical Statist.* **17** 415-431.
- Tang, W. and Zhang, C.-H. (2007). Empirical Bayes methods for controlling the false discovery rate with dependent data. In *Complex Datasets and Inverse Problems: Tomography, Networks, and Beyond*, R. Liu, W. Strawderman and C.-H. Zhang, Eds., Institute of Mathematical Statistics, Lecture Notes-Monograph Series **54** 151-160.
- Fang, J., Vardi, Y. and Zhang, C.-H. (2007). An iterative tomogravity algorithm for the estimation of network traffic. In *Complex Datasets and Inverse Problems: Tomography, Networks, and Beyond*, R. Liu, W. Strawderman and C.-H. Zhang, Eds., Institute of Mathematical Statistics, Lecture Notes-Monograph Series **54** 12-23.
- Liu, R., Strawderman, W. and Zhang, C.-H. (2007). *Complex Datasets and Inverse Problems: Tomography, Networks, and Beyond*. Institute of Mathematical Statistics, Lecture Notes-Monograph Series.
- Zhang, C.-H. (2007). Continuous generalized gradient descent. *J. Comp. Graph. Statist.* **16** 761-781. Tech. Rep. 2005-005, Dept. Statistics, Rutgers University, Piscataway, New Jersey 08854
- Lindquist, M., Zhang, C.-H., Glover, G. and Shepp, L. (2008). Rapid three-dimensional functional magnetic resonance imaging of the initial negative BOLD response. *J. Magnetic Resonance* **191** 100-111.
- Zhang, C.-H. (2008). Discussion: One-step sparse estimates in nonconcave penalized likelihood models. *Ann. Statist.* **36** 1553-1560.
- Lindquist, M., Zhang, C.-H., Glover, G. and Shepp, L. (2008). Acquisition and Statistical Analysis of Rapid 3D fMRI data. *Statistica Sinica* **18** 1395-1419.
- Zhang, C.-H. and Huang, J. (2008). The sparsity and bias of the LASSO selection in high-dimensional regression. *Ann. Statist.* **36** 1567-1594. Model-selection consistency of the LASSO in high-dimensional linear regression. Tech. Rep. 2006-003, Dept. Statistics, Rutgers University, Piscataway, New Jersey 08854

- Huang, J., Ma, S. and Zhang, C.-H. (2008). Adaptive Lasso for sparse high-dimensional regression models. *Statistica Sinica* **18** 1603-1618.
- Zhang, C.-H., Lindquist, M.A., Cho, Z.-H., Glover, G. and Shepp, L. (2008). Fast functional magnetic resonance imaging – a new approach towards neuroimaging. *Statistics & Its Interface* **1** 13-21.
- Zhang, C.-H. (2008). Discussion: Sure independence screening for ultrahigh dimensional feature space. *J. R. Statist. Soc. B*, **70** 902-903.
- Zhang, D., Fan, C., Zhang, J. and Zhang, C.-H. (2009). Nonparametric methods for measurements below detection limit. *Statistics in Medicine* **28** 700-715.
- Huang, J., Ma, S., Xie, H. and Zhang, C.-H. (2009). A group-bridge Lasso for simultaneous group and individual variable selection. *Biometrika* **96** 339-355.
- Jiang, W. and Zhang, C.-H. (2009). General maximum likelihood empirical Bayes estimation of normal means. *Ann. Statist.* **37** 1647-1684.
- Zhang, C.-H. (2009). Generalized maximum likelihood estimation of normal mixture densities. *Statistica Sinica* **19** 1297-1318.
- Zhang, C.-H. and Zhang, Z. (2009). Asymptotic normality of a nonparametric estimator of sample coverage. *Ann. Statist.* **37** 2582-2595.
- Xie, M., Singh, K. and Zhang, C.-H. (2009). Confidence intervals for population ranks in the presence of ties or near ties. *J. Amer. Statist. Assoc.* **104** 775-787.
- Zhang, C.-H. (2010). Nearly unbiased variable selection under minimax concave penalty. *Ann. Statist.* **38** 894-942. Penalized linear unbiased selection. Technical Report No. 2007-003. Department of Statistics, Rutgers University.
- Sun, T. and Zhang, C.-H. (2010). Comments on: ℓ_1 penalization for mixture regression models. *TEST* **19** 270-275.
- Cai, T.T., Zhang, C.-H. and Zhou, H.H. (2010). Optimal rates of convergence for covariance matrix estimation. *Ann. Statist.* **38** 2118-2144.
- Zhang, C.-H. (2010). Discussion: Stability selection. *J. R. Statist. Soc. B* **72** 467-468.
- Jiang, W. and Zhang, C.-H. (2010). Empirical Bayes in-season prediction of baseball batting averages. In *Borrowing Strength: Theory Powering Applications – A Festschrift for Lawrence D. Brown*, J. Berger, T. Cai and I. Johnstone, Eds., Institute of Mathematical Statistics Collection Series **6** 263-273.
- Ye, F. and Zhang, C.-H. (2010). Rate minimaxity of the Lasso and Dantzig selector for the ℓ_q loss in ℓ_r balls. *J. Machine Learning Research* **11** 3519-3540. Rate minimaxity of the Lasso and Dantzig estimators. Tech. Rep. 2009-001, Dept. Statistics, Rutgers University, Piscataway, New Jersey 08854
- Fan, C., Zhang, D. and Zhang, C.-H. (2011). On sample size of the Kruskal-Wallis test with application to a mouse peritoneal cavity study. *Biometrics* **67** 213-224.

- Li, P. and Zhang, C.-H. (2011). A new algorithm for compressed counting with applications in Shannon entropy estimation in dynamic data. *JMLR: Workshop and Conference Proceedings, COLT* **19** 477-496.
- Huang, J., Ma, S., Li, H. and Zhang, C.-H. (2011). The sparse Laplacian shrinkage estimator for high-dimensional regression. *Ann. Statist.* **39** 2021-2046.
- Dicker, L., Sun, T., Zhang, C.-H., Keenan, B. and Shepp, L. (2011). Hidden Markov models for improving accuracy in real-time glucose monitoring. *Diabetes Technology Society, 2011 Diabetes Technology Meeting, San Francisco, CA*, 2011, A31.
- Zhang, C.-H. (2011). Statistical inference for high-dimensional data. In *Mathematisches Forschungsinstitut Oberwolfach: Very High Dimensional Semiparametric Models, Report No. 48/2011*, pp. 28–31.
- Zhang, C.-H. (2012). Minimax ℓ_q risk in ℓ_p balls. In *Contemporary Developments in Bayesian Analysis and Statistical Decision Theory: A Festschrift for William E. Strawderman*, D. Fourdrinier, É. Marchand and A. Rukhin, Eds., Institute of Mathematical Statistics Collection Series **8** 78-89.
- Huang, J. and Zhang, C.-H. (2012). Estimation and selection via absolute penalized convex minimization and its multistage adaptive applications. *J. Machine Learning Research* **13** 1839-1864. arXiv:1112.6363.
- Sun, T. and Zhang, C.-H. (2012). Scaled sparse linear regression. *Biometrika* **99** 879-898. arXiv:1104.4595.
- Li, P. and Zhang, C.-H. (2012). Entropy estimations using correlated symmetric stable random projections. In *Advances in Neural Information Processing Systems* **25**, P. Bartlett and F.C.N. Pereira and C.J.C. Burges and L. Bottou and K.Q. Weinberger, Eds., NIPS 2012, 3185-3193.
- Li, P., Owen, A. and Zhang, C.-H. (2012). One permutation hashing In *Advances in Neural Information Processing Systems* **25**, P. Bartlett and F.C.N. Pereira and C.J.C. Burges and L. Bottou and K.Q. Weinberger, Eds., NIPS 2012, 3122-3130. arXiv:1208.1259.
- Liu, H., Han, F. and Zhang, C.-H. (2012). Transelliptical graphical models. In *Advances in Neural Information Processing Systems* **25**, P. Bartlett and F.C.N. Pereira and C.J.C. Burges and L. Bottou and K.Q. Weinberger, Eds., NIPS 2012, 809–817.
- Sun, T. and Zhang, C.-H. (2012). Calibrated Elastic Regularization in Matrix Completion. In *Advances in Neural Information Processing Systems* **25**, P. Bartlett and F.C.N. Pereira and C.J.C. Burges and L. Bottou and K.Q. Weinberger, Eds., NIPS 2012, 872–880. arXiv:1211.2264.
- Shepp, L., Zeilberger, D. and Zhang, C.-H. (2012). Pick up sticks. arXiv:1210.5642.
- Sun, T. and Zhang, C.-H. (2012). Comments on: Optimal rates of convergence for sparse covariance matrix estimation. *Statistica Sinica* **22** 1354-1358.
- Zhang, C.-H. and Zhang, T. (2012). A general theory of concave regularization for high dimensional sparse estimation problems. *Statist. Sci.* **27** 576-593. arXiv:1108.4988.

- Huang, J., Sun, T., Ying, Z., Yu, Y. and Zhang, C.-H. (2013). Oracle inequalities for the LASSO in the Cox model. *Ann. Statist.* **41** 1142-1165.
- Bühlmann, P., Rütimann, P., van de Geer, S. and Zhang, C.-H. (2013). Correlated variables in regression: clustering and sparse estimation (with discussion). *Journal of Statistical Planning and Inference* **143** 1835-1858. arXiv:1209.5908.
- Jiang, W. and Zhang, C.-H. (2013). A nonparametric empirical Bayes approach to adaptive minimax estimation. *J. Multivariate Analysis* **122** 82-95.
- Dicker, L., Sun, T., Zhang, C.-H., Keenan, B. and Shepp, L. (2013). Continuous blood glucose monitoring: a Bayes-hidden Markov approach. *Statistica Sinica* **23** 1595-1627. doi:10.5705/ss.2012.070s.
- Li, P. and Zhang, C.-H. (2013). Exact sparse recovery with ℓ_0 projections. In KDD'13 Proceedings of the 19th ACM SIGKDD international conference on knowledge discovery and data mining, 2013, 302-310. arXiv:1302.0895.
- Sun, T. and Zhang, C.-H. (2013). Sparse matrix inversion with scaled Lasso. *Journal of Machine Learning Research* **14** 3385-3418. arXiv:1202.2723.
- Fan, C., Zhang, D. and Zhang, C.-H. (2013). A comparison of bias-corrected covariance estimators for generalized estimating equations. *J Biopharm Stat.* **23** 1172-1187.
- Zhang, C.-H. and Zhang, S.S. (2014). Confidence intervals for low-dimensional parameters in high-dimensional linear models. *J. R. Statist. Soc. B* **76** 217-242. Confidence intervals for low-dimensional parameters with high-dimensional data. arXiv:1110.2563.
- Jiang, W. and Zhang, C.-H. (2014). A path following algorithm for penalized logistic regression using SCAD and MCP. *Communications in Statistics - Simulation and Computation* **43** 1064-1077. DOI:10.1080/03610918.2012.725146
- Li, P., Zhang, C.-H. and Zhang, T. (2014). Compressed counting meets compressed sensing. *JMLR: Workshop and Conference Proceedings, COLT* **35** 1058-1077. arXiv:1310.1076
- Jin, J., Zhang, C.-H. and Zhang, Q. (2014). Optimality of graphlet screening in high dimensional variable selection. *JMLR* **15** 2723-2772. arXiv:1204.6452.
- Ren, Z., Sun, T., Zhang, C.-H. and Zhou, H.H. (2015). Statistical inference and optimali-ties in estimation of Gaussian graphical model. *Ann. Statist.* **43** 991-1026. arXiv:1309.6024
- Yuan, M. and Zhang, C.-H. (2015). On tensor completion via nuclear norm minimization. *Foundations of Computational Mathematics*, May 2015. arXiv:1405.1773
- Li, P. and Zhang, C.-H. (2015). Compressed sensing with very sparse Gaussian random projections. *Journal of Machine Learning Research: W&CP* **38** 617-625, AISTAT 2015. arXiv:1408.2504.
- Li, S., Mitra, R. and Zhang, C.-H. (2015). Comments on: An adaptive resampling test for detecting the presence of significant predictors. *J. Amer. Statist. Assoc.* in press.
- Bloniarz, A., Liu, H., Zhang, C.-H., Sekhon, J. and Yu, B. (2015). Lasso adjustments of treatment effect estimates in randomized experiments. *Proc. Nat. Acad. Sci. U.S.A.* in press. arXiv:1507.03625.