

KUN CHEN

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Storrs, CT 06269-4120

EDUCATION *Ph.D. in Statistics* 2011
Department of Statistics and Actuarial Science, University of Iowa, Iowa
City, Iowa, USA
Thesis: Regularized Multivariate Stochastic Regression
Advisor: Dr. Kung-Sik Chan

M.S. in Statistics 2007
Department of Mathematics and Statistics, University of Alaska Fairbanks,
Fairbanks, Alaska, USA

B.Econ. in Finance 2003
Dual B.S. in Computer Science and Technology 2003
Department of Statistics and Finance, University of Science and Technol-
ogy of China, Hefei, Anhui, China

EMPLOYMENT

08/2018– *Associate Professor (Tenured)*, Department of Statistics, University of Con-
necticut, Storrs, CT

01/2017– *Affiliated Faculty*, Institute for Collaboration on Health, Intervention, and Pol-
icy (InCHIP), University of Connecticut, Storrs, CT

05/2014– *Research Fellow*, Center for Population Health & Health Policy, University of
Connecticut Health Center, Farmington, CT

10/2013– *Affiliated Faculty*, Center for Environmental Sciences and Engineering, Uni-
versity of Connecticut, Storrs, CT

08/2013–08/2018 *Assistant Professor*, Department of Statistics, University of Connecticut, Storrs,
CT

08/2011–08/2013 *Assistant Professor*, Department of Statistics, Kansas State University, Man-
hattan, KS

HONORS & AWARDS

- Fellow of the American Statistical Association (ASA) Since 2022
- Elected Member of International Statistical Institute (ISI) Since 2015

- Recognition for Teaching Excellence, UConn Spr. 2015, Fall 2015, Fall 2016, Fall 2018
- Travel Award, IMS New Researchers' Conference. 2014
- Travel Award, Junior Researchers' Workshop at ENAR. 2012
- ENAR Distinguished Student Paper Award, International Biometric Society 2011
- Henry L. Rietz Award, University of Iowa 2009
- Provincial Outstanding College Graduate, Anhui Province, China 2003
- Outstanding Graduate Award, University of Science and Technology of China 2003

RESEARCH INTERESTS

- Multivariate statistical learning; integrative statistical learning
- Machine learning and big data
- Statistical computing and optimization
- Population health and healthcare analytics
- Agricultural, ecological and environmental statistics

GRANTS

(In each grant, the listed dollar amount is the amount awarded or sub-contracted to Chen.)

- Integrative learning of fluorescence fluctuations in perovskite quantum dots using a data science assisted single-particle approach. National Science Foundation (CHE-2203854). Co-PI (with Dr. Jing Zhao); 09/01/2022–08/31/2025. Awarded.
- Conference: UConn Sports Analytics Symposium: engaging students into data science. National Science Foundation (DMS-2219336). Co-PI (with Dr. Jun Yan, Dr. Elizabeth Schifano, Dr. Laura J. Burton, and Dr. Robert A. Huggins); 09/01/2022–08/31/2025. Awarded.
- Developing suicide risk algorithms for diverse clinical settings using data fusion. National Institutes of Health ([R01-MH124740](#)). PI (with Dr. Robert Aseltine and Dr. Fei Wang); \$868,482; 09/16/2020–06/30/2024. Active.
- Improving suicide prediction using NLP-derived social determinants of health. National Institutes of Health ([R01-MH125027](#)). PI on sub-award (PI: Dr. Hong Yu at UMass & VA); \$327,629; 09/01/2020–06/30/2024. Active.
- Improving the identification and management of suicide risk among patients using prescription opioids (HEAL Supplement). National Institutes of Health ([R01-MH112148-03S1](#)). PI on sub-award (PI: Dr. Robert Aseltine); \$346,074; 09/18/2020–06/30/2022. Active.
- Reciprocal modulation of the microbiome and cellular senescence in metabolic dysfunction. National Institutes of Health ([R01-AG068860](#)), PI on sub-award (PI: Dr. Yanjiao Zhou at UCHC); \$234,127; 09/10/2020–05/31/2025. Active.
- Improving the identification of patients at risk of suicide. National Institutes of Health ([R01-MH112148](#)). PI on sub-award (PI: Dr. Robert Aseltine); \$456,550; 07/01/2017 – 06/30/2022. Active.

- Understanding community- and individual-level factors underlying firearm violence in America: Focus on the State of Connecticut. The Interdisciplinary CLAS Pilot Grant Program. Co-PI (with Dr. Mary Bernstein from Sociology and Dr. Blair Johnson from Psychological Sciences); 12/2019–12/2020. Completed.
- Comprehensive heterogeneous response regression from complex data. National Science Foundation ([IIS-1718798](#)), PI; \$250,000; 09/01/2017–08/31/2021. Completed.
- Integrative multivariate analysis with multi-view data. National Science Foundation ([DMS-1613295](#)). PI; \$150,000; 09/01/2016–08/31/2020. Completed.
- Modeling and analysis of large insurance claim and occurrence data: a partnership between UConn & Travelers. Travelers Insurance. Co-PI (PI: Dr. Dipak Dey); 08/01/2016–07/31/2020. Completed.
- Data Science Lab: Real-world data science problems meet future data scientists. UConn CLAS Fund for Innovative Education in Science. PI (with Elizabeth Schifano and Jun Yan); \$65,000; 01/01/2017–12/31/2019. Completed.
- An integrative statistics-guided image-based multi-scale lung model. National Institutes of Health ([U01-HL114494](#)). Consortium PI; \$173,521; 08/01/2013–05/31/2018. Completed.
- Structured low rank modeling for multivariate statistical learning. Simons Foundation (#359404). PI; \$35,000; 09/2015–08/2020. Completed in 2016 (due to other support).
- Garrett Lee Smith Suicide Prevention. U.S. Substance Abuse and Mental Health Services Administration. PI on sub-award; \$20,995; 07/01/2016–12/31/2016. Completed.
- New England eConsult Network. PI on sub-award; \$23,207; 01/19/2016–05/30/2016. Completed.
- Integrative multivariate analysis with multiple sets of variables of high dimensionality. UConn Faculty Large Grant. PI; \$19,399; 01/01/2014–12/31/2014. Completed.
- Source-sink reconstruction through regularized multi-component regression analysis. K-State Faculty Development Award. PI; \$1,000; 06/01/2013–12/31/2013. Completed.
- High-dimensional multivariate modeling via matrix decomposition and regularization. K-State Faculty Enhancement Award. PI; \$10,000; 01/01/2012–12/31/2012. Completed.

PUBLICATIONS

THEORY & METHODOLOGIES (*Student/Post-doc author[†]; corresponding author**)

- [1] Li, G., Li[†], Y., and Chen, K. (2022) It’s all relative: regression analysis with compositional predictors. *Biometrics*. In press. DOI:10.1111/biom.13703.
- [2] Li[†], Y., Li, G., and Chen*, K. (2022) Principal amalgamation analysis for microbiome data. *Genes*, 13(7):1139.
- [3] Cui, S., Liang, J., Pan, W., Chen, K., Zhang, C., and Wang, F. (2022) Collaboration equilibrium in federated learning. In *KDD '22: The 28th ACM SIGKDD Conference on Knowledge Discovery and Data Mining*. ACM. Accepted.
- [4] Liu[†], X., Cong, X., Li, G., Mass, K., and Chen*, K. (2022) Multivariate log-contrast regression with sub-compositional predictors: testing the associations between preterm

- infant's gut microbiome and neurobehavioral outcomes. *Statistics in Medicine*, 41(3):580–594.
- [5] Liu[†], X., Ma, S., and Chen*, K. (2022) Multivariate functional regression via a nested reduced-rank regularization. *Journal of Computational & Graphical Statistics*, 31(1):231–240. **(2019 NESS Student Research Award)**.
 - [6] Xu, T., Chen, K., and Li, G. (2022) The more data, the better? Demystifying deletion-based methods in linear regression with missing data. *Statistics and Its Interface*, 15:515–526.
 - [7] Li[†], Y., Chen, K., Yan, J., and Zhang, X. (2022) Regularized fingerprinting in detection and attribution of climate change with weight matrix optimizing the efficiency in scaling factor estimation. *Annals of Applied Statistics*. In press. **(2019 NESS Student Research Award)**. [[link](#)].
 - [8] Li[†], Y., Yu, C., Zhao, Y., Aseltine, R., Yao, W., and Chen*, K. (2021) Pursuing sources of heterogeneity in modeling clustered population. *Biometrics*. In press. **(2020 ENAR Distinguished Student Paper Award)**. DOI:10.1111/biom.13434.
 - [9] Halder, A., Mohammed, S., Chen, K., and Dey, D. (2021) Spatial Tweedie exponential dispersion models: An application to insurance rate-making. *Scandinavian Actuarial Journal*, 2021(10):1017–1036.
 - [10] Mishra[†], A., Chen, Y., Dey, D. K., and Chen, K. (2021) Generalized co-sparse factor regression. *Computational Statistics & Data Analysis*, 157:107–127.
 - [11] Vaughan[†], G., Aseltine, R., Chen, K., and Yan, J. (2020) Efficient interaction selection via stagewise generalized estimation equations. *Statistics in Medicine*, 39(22):2855–2868.
 - [12] Sun[†], Z., Xu, W., Cong, X., Li, G., and Chen*, K. (2020) Log-contrast regression with functional compositional predictors: Linking preterm infant's gut microbiome trajectories to neurobehavioral outcome. *Annals of Applied Statistics*, 14(3):1535–1556. **(2020 John van Ryzin Award and ENAR Distinguished Student Paper Award)**.
 - [13] Wang[†], W., Aseltine, R., Chen*, K., and Yan, J. (2020) Integrative survival analysis with uncertain event times in application to a suicide risk study. *Annals of Applied Statistics*, 14(1):51–73. **(2017 NESS Student Research Award)**.
 - [14] Uematsu, Y., Fan, Y., Chen, K., Lv, J., and Lin, W. (2019) SOFAR: large-scale association network learning. *IEEE Transactions on Information Theory*, 65(8):4924–4939.
 - [15] Li, G., Liu[†], X., and Chen*, K. (2019) Integrative multi-view regression: Bridging group sparse and low-rank models. *Biometrics*, 75(2):593–602.
 - [16] He[†], L., Chen*, K., Xu[†], W., Zhou, J., and Wang, F. (2018) Boosted sparse and low-rank tensor regression. In *Advances in Neural Information Processing Systems (NeurIPS) 31*, pages 1009–1018. Curran Associates, Inc.
 - [17] Liang[†], J., Chen*, K., Lin, M., Zhang, C., and Wang, F. (2018) Robust finite mixture regression for heterogeneous targets. *Data Mining & Knowledge Discovery*, 32:1509–1560.

- [18] Zhang, X., He, L., Chen, K., Luo, Y., Zhou, J., and Wang, F. (2018) Multi-view graph convolutional network and its applications on neuroimage analysis for parkinson’s disease. *American Medical Informatics Association (AMIA) Annual Symposium Proceedings (Regular Paper)*, pages 1147–1156.
- [19] Luo[†], C., Liang[†], J., Li, G., Wang, F., Dey, D. K., and Chen*, K. (2018) Leveraging mixed-type and incomplete outcomes via a generalized reduced rank regression. *Journal of Multivariate Analysis*, 167:378–394.
- [20] Chen*, K., Mishra, N., Smyth, J., Bar, H., Schifano, E., Kuo, L., and Chen, M.-H. (2018) A tailored multivariate mixture model for detecting proteins of concordant change in the pathogenesis of *Necrotic Enteritis*. *Journal of the American Statistical Association*, 113:546–559.
- [21] Vaughan[†], G., Aseltine, R., Chen, K., and Yan, J. (2017) Stagewise generalized estimation equations with grouped variables. *Biometrics*, 73:1332–1342. **(2017 Student Paper Award, ASA Mental Health Section)**.
- [22] Mishra[†], A., Dey, D. K., and Chen*, K. (2017) Sequential co-sparse factor regression. *Journal of Computational & Graphical Statistics*, 26(4):814–825.
- [23] She, Y. and Chen*, K. (2017) Robust reduced-rank regression. *Biometrika*, 104(3):633–647.
- [24] Goh[†], G., Dey, D. K., and Chen, K. (2017) Bayesian sparse reduced rank multivariate regression. *Journal of Multivariate Analysis*, 157:14–28. **(2015 Student Paper Award, ASA Section on Bayesian Statistical Science)**.
- [25] Lachos, V. H., Moreno, E. J., Chen, K., and Cabral, C. R. B. (2017) Finite mixture modeling of censored data using the multivariate student-*t* distribution. *Journal of Multivariate Analysis*, 159:151–167.
- [26] Chen*, K. and Ma, Y. (2017) Analysis of double single index models. *Scandinavian Journal of Statistics*, 44(1):1–20.
- [27] Yu[†], C., Yao, W., and Chen, K. (2017) A new method for robust mixture regression and outlier detection. *Canadian Journal of Statistics*, 45(1):77–94.
- [28] Chen*, K., Hoffman, E. A., Seetharaman[†], I., Lin, C.-L., and Chan, K.-S. (2016) Linking lung airway structure to pulmonary function via composite bridge regression. *Annals of Applied Statistics*, 10(4):1880–1906.
- [29] Chen*, K. (2016) Model diagnostics in reduced rank estimation. *Statistics and Its Interface*, 9(4):469–484.
- [30] Luo[†], C., Liu, J., Dey, D. K., and Chen*, K. (2016) Canonical variate regression. *Biostatistics*, 17(3):468–483. **(2015 ICSA Student Paper Award)**.
- [31] Chen*, K. and Chan, K.-S. (2016) A note on rank reduction in sparse multivariate regression. *Journal of Statistical Theory and Practice*, 10(1):100–120.
- [32] Bai[†], X., Chen, K., and Yao, W. (2016) Mixture of linear mixed models using multivariate *t* distribution. *Journal of Statistical Computation and Simulation*, 86(4):771–787.

- [33] Gan, G. and Chen, K. (2016) A soft subspace clustering algorithm with log-transformed distances. *Big Data and Information Analytics*, 1(1):93–109.
- [34] Mukherjee[†], A., Chen, K., Wang, N., and Zhu, J. (2015) On the degrees of freedom of reduced-rank estimators in multivariate regression. *Biometrika*, 102(2):457–477.
- [35] Yu[†], C., Chen, K., and Yao, W. (2015) Outlier detection and robust mixture modeling using nonconvex penalized likelihood. *Journal of Statistical Planning and Inference*, 164:27–38.
- [36] Dong, H., Chen, K., and Linderoth, J. T. (2015) Regularization vs. relaxation: A conic optimization perspective of statistical variable selection. *CoRR*, abs/1510.06083.
- [37] Chen^{*}, K., Chan, K.-S., and Stenseth, N. C. (2014) Source-sink reconstruction through regularized multicomponent regression analysis—with application to assessing whether North Sea cod larvae contributed to local fjord cod in Skagerrak. *Journal of the American Statistical Association*, 109:560–573.
- [38] Shi, J., Chen, K., and Song, W. (2014) Robust errors-in-variables linear regression by Laplace distribution. *Statistics & Probability Letters*, 84:113–120.
- [39] Chen^{*}, K., Dong, H., and Chan, K.-S. (2013) Reduced rank regression via adaptive nuclear norm penalization. *Biometrika*, 100(4):901–920.
- [40] Chen, K., Chan, K.-S., and Stenseth, N. C. (2012) Reduced rank stochastic regression with a sparse singular value decomposition. *Journal of the Royal Statistical Society: Series B*, 74(2):203–221.
- [41] Chen, K. and Chan, K.-S. (2011) Subset ARMA selection via the adaptive lasso. *Statistics and Its Interface*, 4:197–205.
- [42] Chen, K., Jiang, W., and Tanner, M. A. (2010) A note on some algorithms for the Gibbs posterior. *Statistics & Probability Letters*, 80(15–16):1234–1241.

APPLICATIONS

- [43] Luo[†], C., Chen, K., Doshi, R., Rickles, N., Chen, Y., Schwartz, H., and Aseltine, R. H. (2022) The association of prescription opioid use with suicide attempts: An analysis of statewide medical claims data. *PLoS ONE*. Accepted.
- [44] Li, X., Guo, J., Velarca, M. V., McClung, A., Chen, K., and Dou, F. (2022) Effect of nitrogen application rate under organic and conventional systems on rice (*Oryza sativa* L.) growth, grain yield, soil properties, and greenhouse gas emission. *Journal of Plant Nutrition*. Accepted.
- [45] Xu[†], W., Chang[†], S., Li[†], Y., Doshi[†], R., Chen, K., Wang, F., and Aseltine, R. (2022) Improving suicide risk prediction via targeted data fusion: proof of concept using medical claims data. *Journal of the American Medical Informatics Association*, 29(3):500–511. **(Featured article)**.

- [46] Aseltine, R., Chen, K., Wang, F., and Jin, J. (2022) Harnessing big data in health care: Challenges in enhancing the clinical utility of patient data for suicide prevention. *Connecticut Medicine*, 86(1):61–66.
- [47] Sun, Y., Wang, Y., Zhu, H., Jin, N., Mohammad, A., Biyikli, N., Chen, O., Chen, K., and Zhao, J. (2022) Excitation wavelength-dependent photoluminescence decay of single quantum dots near plasmonic gold nanoparticles. *Journal of Chemical Physics*, 156:154701.
- [48] Suther, C., Daddi, L., Bokoliya, S., Panier, H., Liu, Z., Lin, Q., Han, Y., Chen, K., Moore, M. D., and Zhou, Y. (2022) Dietary *Boswellia serrata* acid alters the gut microbiome and blood metabolites in a pre-clinical controlled trial. *Nutrients*, 14(4):814.
- [49] Cantoni, C., Lin, Q., Dorsett, Y., Ghezzi, L., Liu, Z., Pan, Y., Chen, K., Han, Y., Li, Z., Xiao, H., Gormley, M., Liu, Y., Bokoliya, S., Panier, H., Suther, C., Evans, E., Deng, L., Locca, A., Mikesell, R., Obert, K., Newland, P., Wu, Y., Salter, A., Cross, A. H., Tarr, P. I., Lovett-Racke, A., Piccio, L., and Zhou, Y. (2022) Alterations of host-gut microbiome interactions in multiple sclerosis. *eBioMedicine*, page 103798.
- [50] Li[†], Y., Chen, K., Yan, J., and Zhang, X. (2021) Uncertainty in optimal fingerprinting is underestimated. *Environmental Research Letters*, 16(8):084043.
- [51] Wang, X., Li, X., Dou, F., Sun, W., Chen, K., Wen, Y., and Ma, X. (2021) Elucidating the impact of three metallic nanoagrichemicals and their bulk and ionic counterparts on the chemical properties of bulk and rhizosphere soils in rice paddies. *Environmental Pollution*, 290:118005.
- [52] Ghahramani, G., Brendel, M., Lin, M., Chen, Q., Keenan, T., Chen, K., Chew, E., Lu, Z., Peng, Y., and Wang, F. (2021) Multi-task deep learning-based survival analysis on the prognosis of late AMD using the longitudinal data in AREDS. *American Medical Informatics Association (AMIA) Annual Symposium Proceedings (Regular Paper)*, pages 506–515.
- [53] Johnson, B. T., Sisti, A., Bernstein, M., Chen, K., Hennessy, E. A., Acabchuk, R. L., and Matos, M. (2021) Community-level factors and incidence of gun violence in the United States, 2014–2017. *Social Science & Medicine*, 280:113969.
- [54] Aleman, J. O., Henderson, W. A., Walker, J. M., Ronning, A., Jones, D., Walter, P. J., Daniel, S. G., Bittinger, K., Vaughan, R., MacArthur, R., Chen, K., Breslow, J. L., and Holt, P. R. (2021) Excess dietary fructose does not alter gut microbiota or permeability in humans: a pilot randomized controlled study. *Journal of Clinical and Translational Science*, 5(1):E143.
- [55] Wang, J., Tang, K., Feng, K., Lin, X., Lv, W., Chen, K., and Wang, F. (2021) Impact of temperature and relative humidity on the transmission of COVID-19: a modelling study in China and the United States. *BMJ Open*, 11:e043863.
- [56] Li, X., Tan, A., Chen, K., Pan, Y., Gentry, T., and Dou, F. (2021) Effect of cover crop type and application rate on soil nitrogen mineralization and availability in organic rice production. *Sustainability*, 13(5):2866.

- [57] Chen, K. and Wang, F. (2021) Discussion on “The timing and effectiveness of implementing mild interventions of COVID-19 in large industrial regions via a synthetic control method”. *Statistics and Its Interface*, 14(1):15–17.
- [58] Chang[†], S., Aseltine, R., Riddhi[†], D., Chen, K., Rogers, S., and Wang, F. (2020) Machine learning for suicide risk prediction in children and adolescents with electronic health records. *Translational Psychiatry*, 10, 413.
- [59] Doshi[†], R., Chen, K., Wang, F., Schwartz, H., Herzog, A., and Aseltine, R. (2020) Identifying risk factors for mortality among patients previously hospitalized for a suicide attempt. *Scientific Reports*, 10:15223.
- [60] Li, X., Dou, F., Guo, J., Velarca, M. V., Chen, K., Gentry, T., and McNear, D. (2020) Soil microbial community responses to nitrogen application in organic and conventional rice (*Oryza Sativa* L.) production. *Soil Science Society of America Journal*, 84(6):1885–1897.
- [61] Li, X., Dou, F., Watkins, K. B., Wang, S., Chen, K., Zhou, X., McClung, A., Storlien, J. O., and Hons, F. M. (2020) Seeding rate effects on organic rice growth, yield, and economic returns. *Agronomy Journal*, 112(5):4104–4119.
- [62] Liu, Y., Huang, J., Urbanowicz, R. J., Chen, K., Manduchi, E., Greene, C. S., Scheet, P., Moore, J. H., and Chen, Y. (2020) Embracing heterogeneity for finding genetic interactions in large-scale research consortia. *Genetic Epidemiology*, 44(1):52–66.
- [63] Zhou, C., Huang, Y., Jia, B., Wang, S., Dou, F., Samonte, S., Chen, K., and Wang, Y. (2019) Optimization of nitrogen rate and planting density for improving grain yield of different rice genotypes in northeast China. *Agronomy*, 9(9):555.
- [64] Doshi, R., Aseltine, R., Wang, F., Schwartz, H., Rogers, S., and Chen, K. (2018) Illustrating the role of health information exchange in a learning health system: Improving the identification and management of suicide risk. *Connecticut Medicine*, 82(6):327–333.
- [65] Dou, F., Ping, C.-L., Li, X., Jorgenson, T., Guo, L., Chen, K., and Michaelson, G. (2017) Soil organic carbon reactivity along the eroding coastline of northern Alaska. *Soil Science*, 182(6):227–232.
- [66] Mickelsen, L., Kolling, F., Chimileski, B., Fujita, A., Norris, C., Chen, K., Nelson, C., and Jackson, A. (2017) Neurochemical heterogeneity among lateral hypothalamic hypocretin/orexin and melanin-concentrating hormone neurons identified through single cell gene expression analysis. *eNeuro*, 4(5):13–17.
- [67] Chen, K. and Aseltine, R. (2017) Using hospitalization and mortality data to target suicide prevention activities. *Journal of Adolescent Health*, 61:192–197.
- [68] Choi, S., Hoffman, E. A., Wenzel, S. E., Castro, M., Fain, S., Jarjour, N., Schiebler, M. L., Chen, K., and Lin, C.-L. (2017) Quantitative computed tomography imaging-based clustering differentiates asthmatic subgroups with distinctive clinical phenotypes. *Journal of Allergy and Clinical Immunology*, 140(3):690–700.
- [69] Chen[†], Y., Chen, K., and Kalichman, S. C. (2017) Barriers to HIV medication adherence in the context of regimen simplification. *Annals of Behavioral Medicine*, 51(1):67–78.

- [70] Dou, F., Lee, T., Chen, K., Wright, A., and Mohammad, A. (2016) Planting date and variety effects on rice main and ratoon crop production in south Texas. *Communications in Soil Science and Plant Analysis*, 47(21):2414–2440.
- [71] Dou, F., Soriano, J., Tabien, R., and Chen, K. (2016) Soil texture and cultivar effects on rice (*Oryza sativa*, L.) grain yield, yield components and water productivity in three water regimes. *PLoS ONE*, 11(3):e0150549.
- [72] Soriano, J., Dou, F., Tabien, R., Harper, C., and Chen, K. (2016) Growth, development, yield and harvest index of two diverse rice cultivars in different water regimes and soil textures. *International Journal of Agronomy and Agricultural Research*, 8(2):82–94.
- [73] Choi, S., Hoffmann, E. A., Wenzel, S. E., Castro, M., Fain, S. B., Jarjour, N. N., Schiebler, M. L., Chen, K., and Lin, C.-L. (2015) Quantitative assessment of multiscale structural and functional alterations in asthmatic populations. *Journal of Applied Physiology*, 118(10):1286–1298.
- [74] Chen, K., Ciannelli, L., Decker, M., Ladd, C., Cheng, W., Zhou, Z., and Chan, K.-S. (2014) Reconstructing source-sink dynamics in a population with a pelagic dispersal phase. *PLoS ONE*, 9(5):e95316.
- [75] Chen, K., Chan, K.-S., Bailey, K., Aydin, K., and Ciannelli, L. (2012) A probabilistic cellular automata approach for predator-prey interactions of arrowtooth flounder (*Atheresthes stomias*) and walleye pollock (*Theragra chalcogramma*) in the eastern Bering Sea. *Canadian Journal of Fisheries and Aquatic Sciences*, 69(2):259–272.
- [76] Hunsicker, M., Ciannelli, L., Bailey, K., Buckel, J., White, J., Link, J., Essington, T., Anderson, T., Brodeur, R., Chan, K.-S., Chen, K., Englund, G., and et. al. (2011) Functional responses and scaling in marine predator-prey interactions: contemporary issues and emerging concepts. *Ecology Letters*, 14(12):1288–1299.

BOOK CHAPTERS

- [77] Luo[†], C., Dey, D. K., and Chen*, K. (2016) Partially supervised sparse factor regression model for multi-class classification. In Lin, J., Wang, B., Hu, X., Chen, K., and Liu, R., editors, *Statistical Applications from Clinical Trials and Personalized Medicine to Finance and Business Analytics*, pages 323–335. Springer, International.

BOOKS AND EDITED VOLUMES

- [78] Reinsel, G. C., Velu, R. P., and Chen, K. (2022) *Multivariate Reduced-Rank Regression: Theory and Applications, 2nd Edition*. Springer. In production.
- [79] Lin, J., Wang, B., Hu, X., Chen, K., and Liu, R., editors (2016) *Statistical Applications from Clinical Trials and Personalized Medicine to Finance and Business Analytics*. Springer, International.

CONFERENCE ABSTRACTS/PROCEEDINGS

- [80] Ghahramani, G., Brendel, M., Chen, Q., Keenan, T., Chen, K., Chew, E., Lu, Z., Peng, Y., and Wang, F. (2021) Deep learning survival analysis on the progression to late AMD in

the Age-Related Eye Disease Study. *Annual Meeting of Association for Research in Vision and Ophthalmology (ARVO)*.

- [81] Li, F., Liu, W., Druhl, E., Tucker, K., Lingeman, J., Pogoda, T., Wang, F., Chen, K., Aseltine, R., Kerns, R., Becker, W., Berlowitz, D., Ney, J., Carlson, K., and Yu, H. (2020) A pilot study of extracting social determinants of health from clinical text. *The 13th ACM International WSDM Conference (Workshop Paper)*.
- [82] Rogers, S., deMayo, R., Chen, K., Wang, F., and Aseltine, R. (2018) EHR phenotyping & data-driven suicide prevention. *American Medical Informatics Association (AMIA) Informatics Summit*.
- [83] Chen, K., Wang, F., and Aseltine, R. (2016) Using hospitalization and suicide mortality data to identify subpopulation of high suicide risk via survival modeling. *American Medical Informatics Association (AMIA) Annual Symposium*.
- [84] Choi, S., Chen, K., Hoffman, E., Wenzel, S., Castro, M., Fain, S., Jarjour, N., Schiebler, M., and Lin, C.-L. (2015) Linking and clustering multiscale structural and functional variables in asthmatic populations. *American Journal of Respiratory and Critical Care Medicine*, 191:A2464.
- [85] Zhang, M., Chen, K., Sparrow, S., Bechtel, P., and Pantoja, A. (2008) Simulating CO₂ released from soil: a Bayesian approach. *Eos Trans. AGU*, 89(53):Fall Meet. Suppl., Abstract B11D-0404.

MANUSCRIPTS

- [86] Chen[†], J., Aseltine, R., Wang, F., and Chen*, K. (2022) Tree-guided rare feature selection and logic aggregation with electronic health records data. Submitted.
- [87] Yu, J., Kong, Z., Chen, K., Zhang, X., Chen, Y., and He, L. (2022) A multilinear least-squares formulation for sparse tensor canonical correlation analysis. Submitted.
- [88] Liu, J., Ye, Z., Chen, K., and Zhang, P. (2022) Variational Bayesian inference of mixed-membership stochastic block model for collaborative filtering. Submitted.
- [89] Jin[†], J., Aseltine, R., Yan, J., and Chen*, K. (2022) Transfer learning for high-dimensional quantile regression. (**Honorable Mention in Student Paper Competition, ASA Section on Risk Analysis**).
- [90] Zang, C., Zhang, H., Xu, J., Zhang, H., Fouladvand, S., Havaldar, S., Cheng, F., Chen, K., Chen, Y., Glicksberg, B. S., Chen, J., Bian, J., and Wang, F. (2022) High-throughput clinical trial emulation with real world data and machine learning: A case study of drug repurposing for Alzheimer’s disease. [medRxiv](#).
- [91] Sacco[†], S., Aseltine, R., and Chen*, K. (2022) Targeted data fusion with survey data to enhance EHR-based suicide risk prediction.
- [92] Pan, W., Chang, S., Chen, K., Henchcliffe, C., and Wang, F. (2021) Learning phenotypic associations for Parkinson’s disease with longitudinal clinical records. [medRxiv](#).
- [93] Wang[†], B., Song, Y., and Chen*, K. (2021) Targeted integrative learning via a directional distance segmented regression.

- [94] Wang[†], W., Luo, C., Aseltine, R., Wang, F., Yan, J., and Chen^{*}, K. (2020) Suicide risk modeling with uncertain diagnostic records. [arXiv:2009.02597](https://arxiv.org/abs/2009.02597).
- [95] Li, Y., Chen, K., Wan, H., Yan, J., and Zhang, X. (2021) Detection and attribution analysis of changes in regional temperature with properly calibrated confidence intervals. Technical Report.
- [96] Pan, W., Cui, S., Wen, H., Chen, K., Zhang, C., and Wang, F. (2021) Correcting the user feedback-loop bias for recommendation systems. [arXiv:2109.06037](https://arxiv.org/abs/2109.06037).
- [97] Chen^{*}, K., Dong, R., Zheng, Z., and Xu[†], W. (2020) Statistically guided divide-and-conquer for sparse factorization of large matrix. *Journal of Machine Learning Research*. [arXiv:2003.07898](https://arxiv.org/abs/2003.07898). In revision.

SOFTWARE

- [98] Li, Y. and Chen, K. *fmerPack: Tools of Heterogeneity Pursuit via Finite Mixture Effects Model* (2021). R package version 0.0-1.
- [99] Zhe, S. and Chen, K. *Compack: Regression with Compositional Covariates* (2020). R package version 0.1.0.
- [100] Wang, W., Chen, K., and Yan, J. *intsurv: Integrative Survival Modeling* (2019). R package version 0.2.0.
- [101] Li, Y., Chen, K., and Yan, J. *tls: Tools of Total Least Squares in Error-in-Variables Models* (2018). R package version 0.1.0.
- [102] Chen, K. *rrpack: Reduced-Rank Regression* (2017). R package version 0.1-5.
- [103] Luo, C. and Chen, K. *CVR: Canonical Variate Regression* (2017). R package version 0.1.
- [104] Vaughan, G., Chen, K., and Yan, J. *sgee: Stagewise Generalized Estimating Equations* (2017). R package version 0.2.
- [105] Mishra, A. and Chen, K. *secure: Sequential Co-Sparse Factor Regression* (2017). R package version 0.5.

(Other computational packages are available at kun-chen.uconn.edu/code/.)

TEACHING

@DEPARTMENT OF STATISTICS, UNIVERSITY OF CONNECTICUT

- STAT:5725 Linear Statistical Models I (3 cr., graduate level; *Fall 2016*.)
- STAT:6694 Linear Statistical Models II (3 cr., graduate level; *Spring 2019*.)
- STAT:3375 Introduction to Mathematical Statistics (3 cr., undergraduate level; *Fall 2013, Fall 2014*.)
- STAT:5665 Applied Multivariate Statistics (3 cr., graduate level; *Fall 2015, Fall 2018, Fall 2019*)
- STAT: 3515/5515 Design of Experiments (3 cr., undergraduate and graduate levels; *Spring 2015, Spring 2016, Spring 2017, Spring 2018, Spring 2021*.)

- STAT:5361 Statistical Computing (3 cr., graduate level; *Spring 2014, Spring 2015, Fall 2021.*)
- STAT:3115/5315 Analysis of Experiments (3 cr., undergraduate and graduate levels; *Spring 2014, Spring 2017, Spring 2022*)
- STAT:6494 Data Science in Action (3 cr., graduate level; *Spring 2018.*)

@DEPARTMENT OF STATISTICS, KANSAS STATE UNIVERSITY

- STAT:905 High Dimensional Data and Statistical Learning (3 cr., graduate level; *Fall 2012*)
- STAT:730 Multivariate Statistical Methods (3 cr., graduate level; *Spring 2012, Spring 2013*)
- STAT:510 Introductory Probability and Statistics (3 cr., undergraduate level; *Fall 2011, Spring 2012, Spring 2013*)

@DEPARTMENT OF STATISTICS AND ACTUARIAL SCIENCE, UNIVERSITY OF IOWA

- 22S:101 Biostatistics (3 cr., undergraduate level; *Fall 2010*)
- * 22S:002 Statistics and Society (3 cr., undergraduate level; *Fall 2007, Spring 2008, Fall 2008*)

@DEPARTMENT OF MATHEMATICS AND STATISTICS, UNIVERSITY OF ALASKA FAIRBANKS

- * STAT:F401 Regression and Analysis of Variance (4 cr., undergraduate level; *Fall 2005*)
(★ Taught as Teaching Assistant.)

SHORT COURSES & TUTORIALS

- “Integrative Multivariate Statistical Learning in Healthcare Research with Real-World Data”. Half-day short course, with Dingfeng Jiang. 2017 ICSA Applied Statistics Symposium, Chicago, IL. June 2017.
- “Practical Integrative Statistical Learning: Recent Developments and Case Studies”. Full-day short course, with Robert Aseltine. The 31th New England Statistics Symposium, Storrs, CT. April 2017.
- “Modern Multivariate Statistical Learning: Methods and Applications”. Full-day short course, with Jun Yan. The 29th New England Statistics Symposium, Storrs, CT. April 2015.

STUDENTS

POST DOC.

- Shane Sacco (June 2021–)
- Chongliang Luo (August 2017 – August 2018)

PH.D.

CURRENT

- Xin Yang, UConn Statistics (2022–).
- Jianmin Chen, UConn Statistics (2021–).
- Boyang Tang, UConn Statistics (2021–).
- Jiadong Fang, UConn Statistics (2020–).
- Jun Jin, UConn Statistics (2020–).

- Zhongmao Liu, UConn Statistics (2020–).
- Yeming Pan, UConn Statistics (2020–).

GRADUATED

- Biju Wang, UConn Statistics (Defended July 2021). [On targeted integrative learning via distance segmented regression](#). Biostatistician at Johnson & Johnson.
- Wanwan Xu, UConn Statistics (Defended June 2021). [Topics on statistical data fusion with public health applications](#). Postdoc at Yale.
- Yan Li, UConn Statistics (Defended June 2021). [Amalgamation-based statistical learning for compositional data](#). (Joint with Jun Yan). Postdoc at University of Michigan.
- Zhe Sun, UConn Statistics (Defended April 2021). [On statistical modeling of longitudinal compositional data with applications in a preterm infant study](#). Postdoc at Yale.
- Xiaokang Liu, UConn Statistics (Defended April 2020). [Integrative multivariate learning via composite low-rank decompositions](#). Postdoc at UPenn.
- Wenjie Wang, UConn Statistics (Defended August 2019). [Integrative survival analysis with application to suicide risk](#). (Joint with Jun Yan). Eli Lilly and Company.
- Aditya Mishra, UConn Statistics (defended August 2017). [On sequential estimation of multivariate associations](#). (Joint with Dipak Dey). Computational Scientist, University of Texas MD Anderson Cancer Center.
- Chongliang Luo, UConn Statistics (defended July 2017). [On integrative reduced-rank models and applications](#). (Joint with Dipak Dey). Assistant Professor, Washington University in St. Louis.
- Gregory Vaughan, UConn Statistics (defended July 2017). [Stagewise estimating equations](#). (Joint with Jun Yan). Assistant Professor, Bentley University, Waltham, MA.
- Xiuqin Bai, K-State Statistics (Defended June 2014) [Robust fitting of mixture regression models](#). (Joint with Weixin Yao). Assistant Professor, Eastern Washington University, Cheney, WA.
- Chun Yu, K-State Statistics (Defended May 2014). [Robust mixture modeling](#). (Joint with Weixin Yao). Assistant Professor, Jiangxi University of Finance and Economics, Jiangxi, China.

M.S.

- Indu Seetharaman, K-State Statistics (defended May 2013). Composite bridge regression for bi-level selection.
- Rohan Khatavkar, K-State Statistics (defended June 2013). Sparse and orthogonal singular value decomposition.

VISITING SCHOLAR

- Jian Liang, Tsinghua University, Beijing, China. 03/2016–09/2016.

STUDENT ACHIEVEMENTS & AWARDS

- Jin Jun, Honorable Mention in Student Paper Competition, from the Section on Risk Analysis of the American Statistical Association in 2022.

- Zhe Sun, John van Ryzin Award for the Best Paper at ENAR 2020.
- Zhe Sun, ENAR Distinguished Student Paper Award, 2020.
- Yan Li, ENAR Distinguished Student Paper Award, 2020.
- Jackson Lautier, Graduate Research Fellowship Award, National Science Foundation, 2020.
- Yan Li, Student Research Award, from the 33rd New England Statistics Symposium in 2019.
- Xiaokang Liu, Student Research Award, from the 33rd New England Statistics Symposium in 2019.
- Xiaokang Liu, Honorable Mention in Student Poster Competition, from the Fourth International Workshop on the Statistical Analyses of Multi-outcome Data (SAM) in 2018.
- Wanwan Xu, Honorable Mention in Student Poster Competition, from the Fourth International Workshop on the Statistical Analyses of Multi-outcome Data (SAM) in 2018.
- Wenjie Wang, Student Research Award, the 31st New England Statistics Symposium in 2017.
- Gregory Vaughan, Student Paper Award, from the Mental Health Section of the American Statistical Association in 2017.
- Chongliang Luo, Student Paper Award, from the International Chinese Statistical Association in 2015.
- Gyuhyeong Goh, Student Paper Award, from the Section on Bayesian Statistical Science of the American Statistical Association in 2015.

PROFESSIONAL ACTIVITIES & SERVICES

PROFESSIONAL MEMBERSHIPS

- Life Member, New England Statistical Society (NESS) 2017–
- Elected Member, International Statistical Institute (ISI) 2015–
- Member, International Biometrics Society, ENAR 2010–
- Life Member, International Chinese Statistical Association (ICSA) 2010–
- Member, Institute of Mathematical Statistics (IMS) 2009–
- Member, American Statistical Association (ASA) 2006–

POSITIONS

- Program Chair-Elect, Section on Statistical Computing, ASA 2022–2023
- Secretary, ASA CT Chapter 2021–
- Executive Secretary, NESS 2017–2021
- Member, Connecticut All-Payer Claims Database (APCD) Data Release Committee (DRC), Office of Health Strategy, State of Connecticut 2017–

EDITORIAL WORK

- Associate Editor, *Journal of Data Science* 2022–
- Editorial Board reviewer, *Journal of Machine Learning Research* 2020–

- Associate Editor, *Sankhya Series B* 2016–
- Co-Editor, 2015 ICSA Symposium Proceeding Book 2015

REFEREE SERVICE

I've reviewed close to 70 papers for top statistical and machine learning journals. Below is a selected list.

- *Annals of Applied Statistics*
- *Annals of Statistics*
- *Biometrics*
- *Biometrika*
- *Journal of Business and Economic Statistics*
- *Journal of Computational and Graphical Statistics*
- *Journal of Machine Learning Research*
- *Journal of Multivariate Analysis*
- *Journal of the American Statistical Association*
- *Journal of the Royal Statistical Society: Series B*
- *Statistics and Computing*
- *Statistics in Medicine*
- *Statistica Sinica*
- *Technometrics*

CONFERENCE SERVICE

- Associate Program Chair, 2022 Joint Statistical Meeting. 2021–
- Co-Chair of Organizing Committee. The 35th New England Statistics Symposium, Storrs, CT. 2022–
- Organizing Committee. The 34th New England Statistics Symposium, Providence, Rhode Island. 2021
- Organizing Committee. New England Rare Disease Statistics (NERDS) Workshop. 2019–
- Organizing Committee. ASA-BI-NESS Webinar Series. 2019–
- Organizing Committee. UConn Sports Analytics Conference. 2019
- Program Committee. The 33rd New England Statistics Symposium, Hartford, CT. May 2019
- Organizing Committee. The 3rd Stat4Onc Annual Symposium, Hartford, CT. April 2019
- Co-Chair of Organizing Committee. Conference on Bayesian Modeling, Computation, and Applications, Storrs, CT. May 2018
- Organizing Committee; full-day short course instructor. The 31th New England Statistics Symposium, Storrs, CT. April 2017
- Panelist on career development; judge on poster competition. The 30th New England Statistics Symposium, New Haven, CT. April 2016
- Invited Session Organizer; session chair. ICSA Applied Statistics Symposium and 13th Graybill Conference, Fort Collins, CO. June 2015
- Full-day short course instructor; invited session organizer; judge on student paper competition; judge on poster competition. The 29th New England Statistical Symposium, Storrs, CT. April 2015
- Invited Session organizer, The 6th International Statistics Forum, Renmin University of China, Beijing, China. May 2014

- Session chair, BIRS Big Data Workshop, Banff, Calgary, Canada. February 2014
- Session chair, ENAR Meeting in Washington, DC 2012

UNIVERSITY & DEPARTMENT SERVICE

AT UCONN

- Chair, Search Committee on Assistant Professor in Data Science 2021–2022
- Co-Chair, Q-Subcommittee of UConn General Education Oversight Committee 2018–2021
- Member, Committee of UConn General Education Oversight Committee 2018–2021
- Member, Q-Subcommittee of UConn General Education Oversight Committee 2014–2021
- Chair, Department Undergraduate Curriculum Committee 2016–2020
- Member, CLAS Curriculum & Course Committee 2016–2018
- Chair, Committee on New England Statistical Society 2016–2017
- Member, Department Colloquium Committee 2014–2018
- Member, Department 3 + 1 Admission Committee 2014–
- Member, Department Graduate Admissions Committee 2013–

AT K-STATE

- Chair, Ph.D. Exam Committee on Linear Models 2012–2013
- Chair, Department Seminar Spring 2013
- Member, Student Assessment Committee 2011–2013
- Member, Departmental Scholarships and Awards Committee 2011–2012
- Member, Graduate Student Progress Committee 2011–2012

PRESENTATIONS

INVITED TALKS

1. “Scalable and interpretable rare feature aggregation.” The 5th International Conference on Econometrics and Statistics (EcoSta 2022). June 2022.
2. “Scalable and interpretable rare feature aggregation.” Department of Statistics, Kansas State University. April 2022.
3. “An amalgamation-based statistical learning paradigm for microbiome data.” Biostatistics and Bioinformatics Branch at NICHD (virtual). January 2022.
4. “An amalgamation-based statistical learning paradigm for microbiome data.” University of Pennsylvania (virtual). October 2021.
5. “An amalgamation-based and taxonomy-guided statistical learning paradigm for microbiome data.” AISC 2021 (virtual). October 2021.
6. “Principal Amalgamation Analysis for compositional data.” ENAR Spring Meeting (virtual). March 2021.
7. “Improving suicide risk prediction through integrative statistical learning.” Guanghai Forum (virtual), Southwest University of Finance and Economics, Chengdu, China. September 2020.
8. “Large-scale integrative learning with applications.” Syracuse University. November 2019.
9. “Targeted integrative learning with applications in suicide risk prediction.” Mathematical Sciences, Worcester Polytechnic Institute. October 2019.

10. "Statistically guided divide-and-conquer for large-scale sparse matrix factorization." Department of Computer Science, University of Massachusetts Lowell. September 2019.
11. "Targeted integrative learning via distance segmented regression." Joint Statistical Meeting, Denver, CO. August 2019.
12. "Boosted sparse and low-rank tensor regression." 2019 Symposium on Data Science and Statistics, Seattle, WA. May 2019.
13. "Integrative Survival Analysis with Uncertain Event Times—Towards a Data Driven Suicide Prevention Framework." Department of Biostatistics, Yale University, New Haven, CT. April, 2019.
14. "Integrative Survival Analysis with Uncertain Event Times—Towards a Data Driven Suicide Prevention Framework." Mental Health Data Science, Department of Biostatistics, Columbia University, New York. December 2018.
15. "Integrative statistical learning with real world healthcare data: towards a data driven suicide prevention framework." 2018 Joint Statistical Meeting, Vancouver, Canada. August 2018.
16. "Stagewise Co-Sparse and Low-Rank Matrix Factorization." 2018 ICSA China Conference, Qingdao, China. July 2018.
17. "Sparse Log-Contrast Regression with Functional Compositional Predictors." The 8th International Forum on Statistics, Renmin University of China, Beijing, China. July 2018.
18. "Stagewise Co-Sparse Low-Rank Matrix Decomposition." 2018 ICSA Applied Statistics Symposium. New Brunswick, New Jersey. June 2018.
19. "Sparse Log-Contrast Regression with Functional Compositional Covariates." 2018 Modern Modeling Methods Conference. Storrs, CT. May 2018.
20. "Stagewise Co-Sparse and Low-Rank Matrix Factorization." Baruch College. New York. April 2018.
21. "Integrate, Divide, and Conquer: On Sparse and Low-Rank Multivariate Statistical Learning." School of Statistics, Beijing Normal University. Beijing, China. December 2017.
22. "Integrate, Divide, and Conquer: On Sparse and Low-Rank Multivariate Statistical Learning." School of Statistics, Renmin University of China. Beijing, China. December 2017.
23. "Integrate, Divide, and Conquer: On Sparse and Low-Rank Multivariate Statistical Learning." Health Informatics PIC Distinguished Speaker Series, IBM Watson Research Center, New York. November 2017.
24. "On Sparse and Low-Rank Models for Integrative Multivariate Statistical Learning." Biostatistics and Epidemiology, Weill Cornell Medical College, New York. November 2017.
25. "Dealing with uncertain suicidal deaths due to imperfect data integration: a first step towards a data-driven suicide prevention framework." Department of Mathematics and Statistics, Boston University, Boston, MA. October 2017.
26. "Integrative Cox regression for modeling uncertain survival records due to imperfect data integration." 2017 ICSA Applied Statistical Symposium, Chicago, IL. June 2017.
27. "Leveraging mixed and incomplete outcomes via reduced-rank regression." Modern Modeling Methods Conference, Storrs, CT. May 2017.
28. "On integrative learning of mixed and incomplete data." IMS/ASA Spring Research Conference, Rutgers University, New Brunswick, NJ. May 2017.
29. "Regularized mixture regression with mixed and incomplete outcomes." The 31st New England Statistics Symposium, Storrs, CT. April 2017.

30. "Using hospitalization and suicide mortality data to identify subpopulation of high suicide risk via survival modeling." AMIA 2016 Annual Symposium, Chicago, IL. November 2016.
31. "On large-scale predictive modeling of mixed and incomplete outcomes." Department of Mathematics & Statistics, University of Massachusetts, Amherst, MA. October 2016.
32. "Canonical variate regression for integrative analysis of genomics data."
 - Joint Statistical Meeting, Chicago. Topic-contributed session. August 2016.
 - Department of Biostatistics, Columbia University. Guest lecture. May 2016.
34. "Model diagnostics in reduced rank estimation." ICSA Applied Statistics Symposium, Atlanta, GA. June 2016.
35. "Robust multivariate mixture model via mean-shift penalization." Modern Modeling Methods Conference, Storrs, CT. May 2016.
36. "A tailored robust multivariate clustering approach via mean-shift penalization."
 - Center for Statistical Science, Peking University, Beijing, China. May 2016.
 - ICSA Conference on Data Science, Yunnan, China. July 2016.
38. "Sequential estimation in sparse factor regression."
 - Conference on Statistical Learning and Data Science, University of North Carolina at Chapel Hill. June, 2016.
 - Big Statistics & Data Science Joint Conference, Renmin University, China. May 2016.
 - Department of Statistics, Florida State University. April 2016.
 - Department of Mathematics and Statistics, Boston University. April 2016.
 - Department of Statistics, University of South Carolina. March 2016.
43. "Canonical variate regression."
 - Department of Statistics, University of Missouri Columbia. September 2015.
 - 60th World Statistics Congress (ISI 2015). August 2015.
45. "Linking lung airway structure to pulmonary function via hierarchical feature selection." ICSA Applied Statistics Symposium and 13th Graybill Conference, Fort Collins, CO. June 2015.
46. "Some recent developments on reduced rank modeling." Department of Mathematical Sciences, Worcester Polytechnic Institute, Worcester, MA. November 2014.
47. "On sparse and low-rank estimation in high dimensions." Department of Statistics, Kansas State University, Manhattan, KS. October 2014.
48. "On some low-rank models in multivariate time series analysis." International Conference on Advances in Interdisciplinary Statistics and Combinatorics, Greensboro, NC. October 2014.
49. "Sparse and orthogonal factor regression." 16th Meeting of New Researchers in Statistics and Probability. Harvard University, Boston, MA. August 2014.
50. "Sparse orthogonal factor regression in high dimensions with an application to eQTL data analysis."
 - WNAR Annual Meeting, Honolulu, HI. June 2014.
 - The 6th International Statistics Forum at Renmin University, Beijing, China. May 2014.
52. "Some recent developments on multivariate modeling." University of Science and Technology of China, Hefei, Anhui, China. May 2014.

53. "Sparse and low-rank regression in high dimensions. BIRS Workshop on Statistical and Computational Theory and Methodology for Big Data Analysis, Banff International Research Station, Banff, Alberta, Canada. February 2014.
54. "Source-sink reconstruction through regularized multi-component regression."
 - Department of Biostatistics, Brown University, Providence, RI. September, 2013.
 - IMS-China International Conference on Statistics and Probability, Chengdu, China. July 2013.
 - Department of Statistics, University of Connecticut, Storrs, CT. February 2013.
57. "Reduced rank estimation and its extensions." College of Mathematics and Software, Sichuan Normal University, Chengdu, China. June 2013.
58. "Adaptive reduced-rank estimation and its complexity." Department of Statistics and Actuarial Science, University of Iowa, Iowa City, IA. November 2012.
59. "Statistical source-sink reconstruction." Department of Statistics, Kansas State University, Manhattan, KS. October 2012.
60. "Regularized multivariate regression for rank reduction and variable selection." ICSA Applied Statistics Symposium, Boston, MA. June 2012.
61. "Some dimension reduction methods in high-dimensional multivariate regression." Department of Mathematics, Kansas State University, Manhattan, KS. April 2012.
62. "Reduced-rank stochastic regression with sparse singular value decomposition."
 - Distinguished Student Paper Award, ENAR Spring Meeting, Miami, FL. March 2011.
 - Department of Statistics, Kansas State University, Manhattan, KS. February 2011.
 - Department of Statistics, Oregon State University, Corvallis, OR. February 2011.
 - Department of Mathematics, Wake Forest University, Winston-Salem, NC. February 2011.
 - Department of Statistics, University of Wyoming, Laramie, WY. January 2011.
 - Department of Statistics, Western Michigan University, Kalamazoo, MI. January 2011.
 - Department of Statistics & Actuarial Science, University of Iowa, Iowa City, IA. September 2010.
69. "Statistical methods, cellular automata models and wavelets." International Workshop on Predator-prey Interactions in Marine Ecosystems, Oregon State University, Corvallis, OR. March 2010.

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