**Yanyuan Ma**

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**Contact Information**

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**Research Interests**

Dimension Reduction, Latent Variable Models, Mixed Samples, Nonparametrics, Semiparametrics, Survival Analysis

**Employment**

| | |
|---|---|
| Professor, Penn State University, Department of Statistics | 07/2016-Present |
| Professor, University of South Carolina, Department of Statistics | 08/2014-06/2016 |
| Professor, Texas A&M University, Department of Statistics | 09/2011-08/2014 |
| Associate Professor, Texas A&M University, Department of Statistics | 09/2008-08/2011 |
| Professor, University of Neuchâtel, Institute of Statistics | 09/2006-08/2008 |
| Assistant Professor, Texas A&M University, Department of Statistics | 09/2004-08/2006 |
| Post Doctoral Research Associate, Statistical and Applied Mathematical Sciences Institute (SAMSI) | 07/2002-07/2004 |
| Developer, Cisco Systems | 02/2001-04/2002 |
| Developer, Justa Technology Inc. | 01/2000-02/2001 |
| Risk Manager, American Express, 06/1999-12/1999 | |
| Teaching Assistant, Massachusetts Institute of Technology, Department of Mathematics | 09/1998-06/1999 |
| Research Assistant, Massachusetts Institute of Technology, Department of Mathematics | 06/1997-06/1998 |
| Summer Intern, the Mathworks | 06/1997-08/1997 |
| Teaching Assistant, Massachusetts Institute of Technology, Department of Mathematics | 09/1996-06/1997 |
| Teaching Assistant, Stanford University, Department of Mathematics | 09/1994-06/1995 |

**Education**

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|---|---|
| Ph.D., Applied Mathematics, **Massachusetts Institute of Technology**, Cambridge, MA | 09/1995-05/1999 |
| Graduate Student, Mathematics, **Stanford University**, Stanford, CA | 09/1994-06/1995 |
| B.S., Mathematics, **Beijing University**, Beijing, China | 09/1990-06/1994 |

**Grants**

1. **NIH**, subcontract PI from University of Pennsylvania, Statistical Methods for Addressing Disease Under-diagnosis Using Electronic Health Record Data, R01-CA-236468-01A1 $108,469(year 1) — 09/2025-08/2029
2. **NIH**, subcontract PI from University of North Carolina at Chapel Hill, Developing a robust and efficient strategy for censored covariates to improve clinical trial design for neurodegenerative diseases, 1R01NS131225-01, $485,568 — 06/2023-04/2028
3. **NSF-NIH**, joint-PI, Collaborative Research: A Robust and Efficient Statistical Framework for Handling Missing-Not-At-Random Data in Patient Reported Outcomes and Beyond, 1953526 $599,662 — 08/2020-07/2023
4. **NIH**, subcontract PI from University of Pennsylvania, Data and Information Integration for Risk Prediction in the Era of Big Data, R01-CA-236468-01A1 $108,469(year 1) — 09/2019-08/2024
5. **NIH**, subcontract PI from University of Pennsylvania, Statistical Methods for Analyzing Electronic Health Record Data, R01-HL-138306-01A1, $333,105 — 09/2018-07/2021

6. **NIH**, subcontract PI from Columbia University, Statistical methods for early disease prediction and treatment strategy estimation using biomarker signatures, R01 NS073671-05A1, $132,747 — 06/2017-04/2021
7. **NSF**, PI, Several Problems in Dimension Reduction, DMS-1608540, $180,000 — 07/2016-06/2019
8. **NSF**, PI, A New Approach to Dimension Reduction via Semiparametrics, DMS-1206693, $300,969 — 09/2012-06/2016
9. **NIH**, subcontract PI from Columbia University, Semiparametric Efficient Methods for Mixture Data Applicable to Genetic Studies, R01NS073671-01, $1,080,511 — 07/2011-06/2016
10. **NSF**, PI, Studies in Measurement Error Problems, DMS-0906341, $165,046 — 07/2009-06/2012
11. **IAMCS**, co-PI (M. G. Genton, PI), Red Sea Ecology: Whale Shark Population Size, Innovation award 460067-10010, $25,000 — 06/2010-05/2011
12. **Swiss NSF**, PI, Studies on Semiparametric Problems, 200021-116146/1, $195,020 — 09/2007-08/2010
13. **NIH**, co-PI (N. Wang, PI), Measurement Error, Missing Data and Semiparametrics, grant R01CA074552-07, $6,000 approximately, — 06/2002-05/2006

## Publications

Under Review

1. Insolia, L., Ma, Y., Boulaguiem, Y. and Guerrier, S. (2025) Towards optimal adjustments for multivariate average equivalence testing
2. Lee, S., Ma, Y. and Zhao, J. (2024) Efficient Inference with Predicted Data under Label Shift
3. Li, M., Han, K. and Ma, Y. (2025) EBMaC: Empirical Bayes and Matrix Constraints for Label Shift
4. Wang, L., Ma, Y. and Zhao, J. (2024) Borrowing Information from an Unidentifiable Model: Guaranteed Efficiency Gain with a Dichotomized Outcome in the External Data
5. Lee, S., Richardson, B., Ma, Y., Marder, K. and Garcia, T. P. (2024) Robust and efficient estimation in the presence of a randomly censored covariate
6. Luo, R., Baek, S. and Ma, Y. (2024) Locally efficient estimators for partially linear single index quantile regression
7. Wang, T., Ma, Y. and Wei, Y. (2024) Joint Quantile Regression with Latent Clustering for Age-Dependent Genetic Effects on Multiple Traits
8. Tang, Y., Ma, Y. and Li, B. (2024) A KL-divergence based test for elliptical distribution
9. Zong, Y., Liu, Y., Ma, Y. and Van Keilegom, I. (2024) Inference on Data with Both Multiplicative and Additive Measurement Error
10. Wei, J., Ma, Y., He, P. and Tong, T. (2023) Interval estimation for the inverse binomial proportion
11. Yan, X. and Ma, Y. (2023) Network Functional Linear Regression
12. Liang, C., Ma, W. and Ma, Y. (2023) Adaptive block banding precision matrix estimation for multivariate longitudinal data
13. Ren, Y., Zhu, X. and Ma, Y. (2022) Matrix-valued Network Varying CoefficientModel with Latent Group Structure
14. Zhang, Y., Ma, Y., Orso, S., Karemera, M., Victoria-Feser, M. and Guerrier, S. (2024) Just Identified Indirect Inference Estimator: Accurate Inference through Bias Correction
15. Zhu, X., Wang, F., Li, Z. and Ma, Y. (2022) Network Varying Coefficientfor Incomplete Matrix-Valued Time Series

16. Yang, Y., Ma, Y., Carroll, R. J. and Chen, Y (2022) Distributed inference for heterogeneous data with structural missingness
17. Jiang, F., Zhu, L. and Ma, Y. (2020) Kernel Information Augmentation: Unfolding the Hidden Structure
18. Vazquez, J. E., Ashner, M. C., Ma, Y., Marder, K and Garcia, T. (2024) Establishing the Parallels and Differences Between Right- Censored and Missing Covariates

Published/In Press

1. Shetty, S., Ma, Y. and Zhao, J. (2025) Robust estimation under a semiparametric propensity model for nonignorable missing data *Electronic Journal of Statistics*, in press.
2. Feng, L., Liu, B. and Ma, Y. (2025) Testing for high-dimensional white noise *Statistica Sinica*, in press.
3. Lee, S., Ma, Y. and De Luna, X. (2025) Covariate Balancing for Causal Inference on Categorical and Continuous Treatments *Econometrics and Statistics*, 33, 304-329.
4. Jiang, F., Zhao, G., Rodriguez-Monguio, R. and Ma, Y. (2024) Causal Effect Estimation in Survival Analysis with High Dimensional Confounders *Biometrics*, in press.
5. Hasler, Jill; Ma, Yanyuan; Wei, Yizheng; Parikh, Ravi; Chen, Jinbo (2024) A Semiparametric Method for Risk Prediction Using Integrated Electronic Health Record Data *Annals of Applied Statistics*, in press.
6. Jiang, F. and Ma, Y. (2024) Prediction in Measurement Error Models *Electronic Journal of Statistics*, in press.
7. Lee, S., Ma, Y. and Zhao, J. (2024) Doubly Flexible Estimation under Label Shift *Journal of the American Statistical Association*, in press.
8. Lee, S., Ma, Y. and Ronchetti, E. (2024) Semiparametric Approach to Estimation of Marginal Mean Effects and Marginal Quantile Effects *Journal of Econometrics*, in press.
9. Yuan, Q., Liu, B., Li, D. and Ma, Y. (2024) Community extraction of network data under stochastic block models *Statistica Sinica*, in press.
10. Wang, H., Liu, B., Feng, L., and Ma, Y. (2024) Fisher's combined probability test for cross-sectional independence in panel data models with serial correlation *Statistica Sinica*, in press.
11. Wang, C., Guo, J., Ma, Y. and Zheng, S. (2024) Kaiser Criterion in Factor Models *Acta Mathematica Sinica*, in press.
12. Wang, H., Feng, L., Liu, B. and Ma, Y. (2024) Rank-based max-sum tests for mutual independence of high-dimensional random vectors *Journal of Econometrics*, 238,
13. Zhao, G., Ma, Y., Lin, H. and Li, Y. (2024) Evaluation of transplant benefits with the U.S. Scientific Registry of Transplant Recipients by semiparametric regression of mean residual life *Annals of Applied Statistics*, in press.
14. Li, Mushan and Ma, Y. (2024) An Update on Measurement Error Modeling *Annual Review of Statistics and Its Application*, 11, 1:10.110.18.
15. Li, M., Ma, Y. and Zhao, J. (2024) Efficient Estimation in a Partially Specified Nonignorable Propensity Score Model *Journal of Computational Statistics and Data Analysis*, 174, 107322.
16. Zhao, G., Ma, Y., Schnall, J., Damrauer, S., Levin, M. and Chen, J. (2024) A Nested Semiparametric Method for Case-Control Study with Missingness *Scandinavian Journal of Statistics*, in press.
17. Feng, L., Liu, B. and Ma, Y. (2024) A one-sided refined symmetrized data aggregation approach to robust mutual fund selection *Journal of Business and Economic Statistics*, 42, 257-271.
18. Zhang, X., Liu, H., Wei, Y. and Ma, Y. (2024) Prediction using many samples with models containing partially shared parameters *Journal of Business and Economic Statistics*, 42, 187-196.

19. Jiang, F., Ma, Y. and Carroll, R. J. (2024) A spline-assisted semiparametric approach to nonparametric measurement error models *Econometrics and Statistics*, in press.
20. Ghosh, T., Ma, Y., Zhu, W. and Wang, Y. (2024) Learning non-monotone optimal individualized treatment regimes *Statistica Sinica*, in press.
21. Lee, S. H., Ma, Y., Wei, Y. and Chen, J. (2023) Optimal sampling for positive only electronic health record data *biometrics*, 79, 2974-2986.
22. Ghosh, T., Ma, Y., Song, R. and Zhong, P. (2023) Flexible Inference of Optimal Individualized Treatment Strategy in Covariate Adjusted Randomization with Multiple Covariates *Electronic Journal of Statistics*, 17, 1344-1370.
23. Liu, W., Lin, H., Ma, Y., Wei, Y. and Li, Y. (2023) Supervised structural learning of semiparametric regression on high-dimensional correlated covariates with applications to eQTL studies *Statistics in Medicine*, 42, 3145-3163.
24. Gao, Z., Zou, J., Zhang, X. and Ma, Y. (2023) Frequentist model averaging for envelope models *Scandinavian Journal of Statistics*, 50, 1325-1364.
25. Li, Mushan and Ma, Y. (2023) Robust estimation of mean-variance relation *Statistics in Medicine*, 43, 419-434.
26. Jiang, F., Zhou, Y., Liu, J. and Ma, Y. (2023) On high dimensional poisson models with measurement error: hypothesis testing for nonlinear nonconvex optimization *Annals of Statistics*, 51, 233-259.
27. Jiang, F., Jin, H. and Ma, Y. (2022) Matrix Completion with Covariate Information and Informative Missingness *Journal of Machine Learning Research*, 23, 1-62.
28. Yin, Y. and Ma, Y. (2022) Properties of eigenvalues and eigenvectors of large dimensional sample correlation matrices *Annals of Applied Probability*, 32, 4763-4802.
29. Feng, L., Liu, B. and Ma, Y. (2023) High-dimensional alpha test of the linear factor pricing models with heavy-tailed distributions *Statistica Sinica*, 33, 1389-1410.
30. Shetty, S., Ma, Y. and Zhao, J. (2023) The Pursuit of Efficiency versus Robustness: A Learning Experience from Analyzing a Semiparametric Nonignorable Propensity Score Model *Observational Studies*, 9, 97-104.
31. Dai, G., Ma, Y., Hasler, J., Chen, J. and Carroll, R. J. (2023) A Robust Approach for Electronic Health Record-Based Case-Control Studies with Contaminated Case Pools *Biometrics*, 79, 2023-2035.
32. Zhang, X., Zhang, X. and Ma, Y. (2023) A model averaging treatment to multiple instruments in Poisson model with errors *Canadian Journal of Statistics*, 51, 173-198.
33. Zheng, T., Guo, J. and Ma, Y. (2022) A two-way additive model with unknown group specific interactions applied on gene expression data *Biometrical Journal*, 64, 1007-1022.
34. Liu, J., Afful, A. Mansell, H. and Ma, Y. (2022) Bias analysis for misclassification errors in both the response variable and covariate *American Statistician*, 76, 353-362.
35. Liang L., Hou, J., Uno, H., Cho, K., Ma, Y. and Cai, T. (2022) Semi-supervised Approach to Event Time Annotation Using Longitudinal Electronic Health Records *Life Time Data Analysis*, 28, 428-491.
36. Feng, L., Lan, W., Liu, B. and Ma, Y. (2022) High-dimensional test for alpha in linear factor pricing models with sparse alternatives *Journal of Econometrics*, 229, 152-175.
37. Jiang, F. and Ma, Y. (2022) Poisson Regression with Error Corrupted High Dimensional Features *Statistica Sinica*, 32, 2023-2046.
38. Li, M., Li, R. and Ma, Y. (2021) Inference in high-dimensional linear measurement error model. *Journal of Multivariate Statistics*, 184, 104759.
39. Duan, J., Gao, W., Ma, Y. and Ng, H. (2022) Efficient Computational Algorithms for Approximate Optimal Designs *Journal of statistical computation and simulation*, 92, 764-793.

40. Zhao, J. and Ma, Y. (2022) A Versatile Estimation Procedure without Estimating the Nonignorable Missingness Mechanism *Journal of the American Statistical Association*, 117, 1916-1930.
41. Zhu, X., Cai, Z. and Ma, Y. (2022) Network Functional Varying Coefficient Model *Journal of the American Statistical Association*, 117, 2074-2085.
42. Zhao, G., Ma, Y. and Lu, W. (2022) Efficient Estimation for Dimension Reduction with Censored Survival Data *Statistica Sinica*, 32, 2359-2380.
43. Zhang, L., Herman, D., Ma, Y. and Chen, J. (2022) Testing Calibration of Phenotyping Models Using Positive-Only Electronic Health Record Data *Biostatistics*, 23, 844859.
44. Wang, H. and Ma, Y. (2021) Optimal subsampling for quantile regression in big data *Biometrika*, 108, 99-112.
45. Ghosh, T., Ma, Y. and De Luna, X. (2021) Suffcient dimension reduction for feasible and robust estimation of average causal effect *Statistica Sinica*, 31, 1-21.
46. Feng, L., Liu, B. and Ma, Y. (2021) An inverse norm sign test of location parameter for high-dimensional data *Journal of Business and Economic Statistics*, 39, 807-815.
47. Ma, Y., Wang, S., Xu, L. and Yao, W. (2021) Semiparametric Mixture Regression with Unspecified Error Distributions *Test*, 30, 429-444.
48. Zhu, R., Zhang, X., Ma, Y. and Zou, G. (2021) Model averaging estimation for high dimensional covariance matrx with a network structure. *Econometrics Journal*, 24, 177-197.
49. Gao, Z., Guo, J. and Ma, Y. (2021) A note on statistical analysis of factor models of high dimension. *Science China, mathematics*, 64, 1905-1916.
50. Ma, Y. (2021) Semiparametric methods in measurement error and misclassification. *CRC Handbook on Measurement Error Models*, ed. Yi, G., Delaigle A. and Gustafson, P. 157-182.
51. Zhao, S., Ma, Y., Zhang, X., Wan, A. T. K., and Wang, S. (2020) Model averaging in a multiplicative heteroscedastic model. *Econometric Reviews*, 39, 1100-1124.
52. Zhang, L., Ding, X., Ma, Y., Muthu, N., Ajmal, I., Moore, J. H., Herman, D. S. and Chen, J. (2020) Electronic Health Record Phenotyping with Internally Assessable Performance (PhIAP) using Anchor-Positive and Unlabeled Patients *Journal of the American Medical Informatics Association*, 27, 119-126.
53. Baek, S., Ho, Y. and Ma, Y. (2020) Using sufficient direction factor model to analyze breast cancer pathway activities *Biometrics*, 76, 1340-1350.
54. Wang, Q., Ma, Y. and Yang, G. (2020) Locally efficient estimation in generalized partially linear model with measurement error in nonlinear function *Test*, 29, 553-572.
55. Liu, J., Ma, Y. and Johnstone, J. (2020) Goodness-of-fit Test for Zero-Inflated Poisson Mixed Effect Models in Tree Abundance Studies *Computational Statistics and Data Analysis*, 144, 106887.
56. Yang, G. and Wang, Q. and Cui, X. and Ma, Y. (2020) Generalized Partially Linear Single Index Model with Measurement Error, Instruments and Binary Response *Brazilian Journal of Probability and Statistics*, 34, 770-794.
57. Jiang, F., Baek, S., Cao, J. and Ma, Y. (2020) A Functional Single Index Model *Statistica Sinica*, 30, 303-324
58. Ma, Y., Jiang, F. and Henmi, M. (2020) Understanding and Utilizing the Linearity Condition in Dimension Reduction *Statistica Sinica*, 30, 763-781.
59. Li, M., Ma, Y. and Li, R. (2019) Semiparametric Regression for Measurement error Model with Heteroscedastic Error *Journal of Multivariate Statistics*, 171, 320-338.
60. Lian, H., Zhao, W. and Ma, Y. (2019) Multiple Quantile Modelling via Reduced Rank Regression. *Statistica Sinica*, 29,1439-1464.
61. Jiang, F., Ma, Y. and Wei, Y. (2019) Sufficient direction factor model and its application for gene expression quantitative trait loci discovery *Biometrika*, 106, 417-432.

62. Zhang, X., Ma, Y. and Carroll, R. J. (2019) MALMEM: Model Averaging in Linear Measurement Error Models. *Journal of the Royal Statistical Society, Series B.*, 81, 763-779.
63. Guerrier, S. Dupuis-Lozeron, E., Ma, Y. and Victoria-Feser, M. (2019) Simulation based Bias Correction Methods for Complex Models. *Journal of the American Statistical Association*, 114, 146-157.
64. Liang, L., Carroll, R. J. and Ma, Y. (2019) A Semiparametric Efficient Estimator in Case-Control Studies for Gene-Environment Independent Models. *Journal of Multivariate Analysis*, 173, 38-50.
65. Wei, Y., Ma, Y., Garcia, T and Sinha, S. (2019) Consistent Estimator for Logistic Mixed effect Models *Canadian Journal of Statistics*, 47, 140-156.
66. Liu, J. and Ma, Y. (2019) Locally Efficient Semiparametric Estimators for a Class of Poisson Models with Measurement Error *Canadian Journal of Statistics*, 47, 157-181.
67. Ma, Y. and Zhu, L. (2019) Simultaneous Analysis of the Central Mean and Central Variance Subspaces. *Statistica Sinica*, 29, 567-588.
68. Jiang, F., Ma, Y. and Yin, G. (2018) Randomization Adapted to Continuous and Discrete Covariates in Clinical Trials. *Statistica Sinica*, 28, 2841-2856.
69. Zhao, J. and Ma, Y. (2018) Optimal Pseudolikelihood Estimator in the Analysis of Multivariate Missing Data with Nonignorable Nonresponse *Biometrika*, 105, 479-486.
70. Liang, L., Ma, Y., Wei, Y. and Carroll, R. J. (2018) Semiparametric Efficient Estimation in Quantile Regression of Secondary Analysis *Journal of the Royal Statistical Society, Series B*, 80, 625-648.
71. Zhang, X., Chiou, J. and Ma, Y. (2018) Functional Prediction Through Averaging Estimated Functional Linear Regression Models *Biometrika*, 105, 945-962.
72. Liu, J., Ma, Y. and Wang, L. (2018) An Alternative Robust Estimator of Average Treatment Effect in Causal Inference *Biometrics*, 74, 910-923.
73. Liang, L., Carroll, R. J. and Ma, Y. (2018) Dimension Reduction and Estimation in the Secondary Analysis of Case-Control Studies *Electronic Journal of Statistics*, 12, 1782-1821.
74. Zhou, Y., Huang, R., Yu, S. and Ma, Y. (2018) Optimal Quantile Level Selection For Disease Classification and Biomarker Discovery With Application to ECG Data. *Statistical Methods in Medical Research*, 27, 3340-3349.
75. Baek, S., Komori, O. and Ma, Y. (2018) An Optimal Semiparametric Method for Two-Group Classification. *Scandinavian Journal of Statistics*, 45, 806-846.
76. Kim, M. and Ma, Y. (2019) Semiparametric efficient estimators in heteroscedastic error models. *Annals of the Institute of Statistical Mathematics*, 71, 1-28.
77. Wang, Q., Ma, Y. and Wang, Y. (2017) Predicting disease Risk by Transformation Models in the Presence of Missing Subgroup Identifiers. *Statistica Sinica*, 27, 1857-1878.
78. Garcia, T. P. and Ma, Y. (2017) Simultaneous treatment of unspecified heteroskedastic model error distribution and mismeasured covariates for restricted moment models. *Journal of Econometrics*, 200,194-206.
79. Stalder, O., Asher, A., Liang L., Carroll, R. J., Ma, Y. and Chatterjee, N. (2017) Semiparametric Analysis of Complex Polygenic Gene-Environment Interactions in Case-Control Studies. *Biometrika*, 104, 801-812.
80. Garcia, T. P., Ma, Y., Marder, K. and Wang, Y. (2017) Robust mixed-effects model for clustered failure time data: application to Huntington's disease event measures. *Annals of Applied Statistics*, 11, 1085-1116.
81. Liu, J., Ma, Y., Zhu, L. P. and Carroll, R. J. (2017) Estimation and Inference of Error-Prone Covariate Effect in the Presence of Confounding Variables. *Electronic Journal of Statistics*, 11, 480-501.

82. Zhang, Y., Zhu, L and Ma, Y. (2017) Efficient Dimension Reduction for Multivariate Response Data. *Journal of Multivariate Analysis*, 155, 187-199.
83. Jiang, F., Ma, Y. and Lee, J. (2017) A second-order semiparametric method for survival analysis, with application to an acquired immune deficiency syndrome clinical trial study *Journal of the Royal Statistical Society, Series C.*, 66, 833-846.
84. Xu, K., Ma, Y. and Wang, Y. (2017) Nonparametric Distribution Estimation in the Presence of Familial Correlation and Censoring. *Electronic Journal of Statistics*, 11, 1928-1948.
85. Ma, S., Ma, Y., Wang, Y. and Carroll, R. J. (2017) A Semiparametric Single-Index Risk Score Across Populations. *Journal of the American Statistical Association*, 112, 1648-1662.
86. Zhang, X., Wang, H., Ma, Y. and Carroll, R. J. (2017) Linear Model Selection when Covariates Contain Errors. *Journal of the American Statistical Association*, 112, 1553-1561.
87. Chen, K. and Ma, Y. (2017) Analysis of Double Single Index Models. *Scandinavian Journal of Statistics*, 44, 1-20.
88. Guerrier, S., Mili, N., Molinari, R., Orso, S., Avella-Medina, M. and Ma, Y. (2016) A Predictive Based Regression Algorithm for Gene Selection *Frontiers in Genetics: Statistical Genetics and Methodology*, 7, 97-108.
89. Ma, Y. and Carroll, R. J. (2016) Semiparametric Estimation in the Secondary Analysis of Case-Control Studies. *Journal of the Royal Statistical Society, Series B*, 78, 127-153.
90. Zhao, G. and Ma, Y. (2016) Robust Nonparametric Kernel Regression Estimator. *Statistics and Probability Letters*, 116, 72-79.
91. Sinha, S. and Ma, Y. (2016) Analysis of Proportional Odds Models with Censoring and Errors-in-Covariates. *Journal of the American Statistical Association*, 111, 1301-1311.
92. Garcia, T. P. and Ma, Y. (2016) Optimal estimator for logistic model with distribution-free random intercept. *Scandinavian Journal of Statistics*, 43, 156-171.
93. Ma, Y. and Zhang, X. (2015) A Validated Information Criterion (VIC) to Determine the Structural Dimension in Dimension Reduction Models. *Biometrika*, 102, 409-420.
94. Wu, Y., Ma, Y. and Yin, G. (2015) Smoothed and Corrected Score Approach to Censored Quantile Regression with Measurement Errors. *Journal of the American Statisitcal Association*, 110, 1670-1683.
95. Jiang, F., Ma, Y. and Wang, Y. (2015) Fused Kernel-Spline Smoothing for Repeatedly Measured Outcomes in a Generalized Partially Linear Model with Functional Single Index. *Annals of Statistics*, 43, 1929-1958. *Distinguished Student Paper Award for 2014 Enar.*
96. Ma, Y. and Yao, W. X. (2015) Flexible Estimation of Semiparametric Mixture Models. *Electronic Journal of Statistics*, 9, 444-474.
97. Chen, T., Ma, Y. and Wang, Y. (2015) Predicting cumulative risk of disease onset by re-distributing weights. *Statistics in Medicine*, 34, 2427-2443.
98. Tong, T., Ma, Y., Dai, W. and Zhu, L.X. (2015) Difference-based variance estimation in nonparametric regression with repeated measurements. *Journal of Statistical Planning and Inference*, 163, 1-20.
99. Yi, G., Ma, Y., Spiegelman, D. and Carroll, R. J. (2015) Functional and Structural Methods with Mixed Measurement Error and Misclassification in Covariates. *Journal of the American Statisitcal Association*, 110, 681-696.
100. Xu, K., Ma, Y. and Wang, L. (2015) Instrument Assisted Regression with Errors in Variables. *Scandinavian Journal of Statistics*, 42, 104-117.
101. Ma, Y. (2015) Discussion on "On Families of Distributions with Shape Parameters". *International Statistics Review*, 83, 207-211.

102. Ma, Y. and Zhu, L. (2014) On Estimation Efficiency of the Central Mean Subspace. *Journal of the Royal Statistical Society, Series B*, 76, 885-901.
103. Hall, P. and Ma, Y. (2014) Quick and easy one-step parameter estimation in differential equations. *Journal of the Royal Statistical Society, Series B*, 76, 735-748.
104. Ma, Y. and Wang, Y. (2014) Estimating Disease Onset Distribution Functions in Mutation Carriers with Censored Mixture Data. *Journal of the Royal Statistical Society, Series C.*, 63, 1-23.
105. Qin, J., Garcia, T. P., Ma,Y., Tang, M. X., Marder, K. and Wang, Y. (2014) Combining isotonic regression and EM algorithm to predict genetic risk under monotonicity constraint and unknown genotypes. *Annals of Applied Statistics*, 8, 1182-1208.
106. Sinha, S. and Ma, Y. (2014) Semiparametric Analysis of Linear Transformation Models with Covariate Measurement Errors. *Biometrics*, 70, 21-32.
107. Xu, K. and Ma, Y. (2014) Effective use of multiple error-prone covariate measurements in capture-recapture models. *Statistica Sinica*, 24, 1529-1546.
108. Ma, Y. and Wang, Y. (2014) Nonparametric modeling and analysis of association between Huntingtons disease onset and CAG repeats. *Statistics in Medicine*, 33, 1369-1382.
109. Ma, Y. and Zhu, L. (2013) Efficient Estimation in Sufficient Dimension Reduction. *Annals of Statistics*, 41, 250-268.
110. Ma, Y., Kim, M. and Genton, M. (2013) Semiparametric Efficient and Robust Estimation of an Unknown Symmetric Population under Arbitrary Sample Selection Bias. *Journal of the American Statistical Association*, 108, 1090-1104.
111. Ma, Y. and Zhu, L. (2013) Efficiency Loss Caused by Linearity Condition in Dimension Reduction. *Biometrika*, 100, 371-383.
112. Ma, Y. and Yin, G. (2013) Testing overall and biomarker-defined subset treatment effects with imprecise biomarker measurements. *Statistica Sinica*, 23, 1019-1042.
113. Yin, G. and Ma, Y. (2013) Pearson-type Goodness-of-fit Test with Bootstrap Maximum Likelihood Estimation. *Electronic Journal of Statistics*, 7, 412-427.
114. Ma, Y. and Zhu, L. (2013) A Review on Dimension Reduction. *International Statistics Review*, 81, 134-150.
115. Tong, T., Ma, Y. and Wang, Y. (2013) Asymptotic properties of the least squares estimator for residual variance in nonparametric regression. *Bernoulli*, in 13, 1839-1854.
116. Ma, Y. and Zhu, L. (2012) Doubly Robust and Efficient Estimators for Heteroscedastic Partially Linear Single-index Model Allowing High Dimensional Covariates. *Journal of the Royal Statistical Society, Series B*, 75, 305-322.
117. Ma, Y. and Zhu, L. (2012) A Semiparametrics Approach to Dimension Reduction. *Journal of the American Statistical Association*, 107, 168-179.
118. Ma, Y., Hart, J. D. and Carroll, R. J. (2011) Density estimation in Several Populations With Uncertain Population Membership. *Journal of the American Statistical Association*, 106, 1180-1192.
119. Wang, Y., Garcia, T. P. and Ma, Y. (2012) Nonparametric estimation for censored mixture data with application to the Cooperative Huntington's Observational Research Trial. *Journal of the American Statistical Association*, 107, 1324-1338.
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**Presentations**

Invited

1. Doubly Flexible Estimation under Label Shift, Department of Statistics, Technion, Haifa, Israel — 3/2025
2. Doubly Flexible Estimation under Label Shift, Department of Statistics, East China Normal University, Shanghai, China — 1/2025
3. Doubly Flexible Estimation under Label Shift, Department of Statistics, Zhejiang University of Commerse, Hangzhou, China — 12/2024

4. Semiparametric Learning, Department of Statistical Sciences, Shanghai University of Foreign Trade, Shanghai, China 12/2024
5. Doubly Flexible Estimation under Label Shift, Department of Biostatistics, University of California, San Francisco, CA 11/2024
6. Semiparametric Learning, Department of Biostatistics, Harvard University, Cambridge, MA 10/2024
7. Doubly Flexible Estimation under Label Shift, CELEHS Distinguished lecture series, Department of Biostatistics, Harvard University, Cambridge, MA 10/2024
8. Doubly Flexible Estimation under Label Shift, department colloquium, department of Statistics, Fort Colins, CO 9/2024
9. What to do with the predictions?, TRAIL, NYC, NY 8/2024
10. Doubly Flexible Estimation under Label Shift, ISML, Bend, OR 8/2024
11. Prediction in Measurement Error Models, JSM, Portland, OR 8/2024
12. Doubly Flexible Estimation under Label Shift, SAM, invited, Salzburg, Austria 7/2024
13. Doubly Flexible Estimation under Label Shift, ISNPS, invited, Graga, Portugal 6/2024
14. Prediction in Measurement Error Models, Department Colloquium, invited, Department of Statistics Shanghai University of finance and Economics, Shanghai, China 6/2024
15. Prediction in Measurement Error Models, Department Colloquium, invited, Department of Statsitics, Fudan University, Shanghai, China 6/2024
16. Prediction in Measurement Error Models, Conference in honor of Raymond Carroll's 75 birthday, invited, Department of statistics Texas A&M University, College Station, TX 5/2024
17. Prediction in Measurement Error Models, Workshop on Statistics and Data Analytics, invited, Department of statistics University of Geneva, Ovronnaz, Switzerland 5/2024
18. Doubly Flexible Estimation under Label Shift, Department colloquium, invited, Department of mathematics and statistics University of New Hampshire, NH 4/2024
19. Doubly Flexible Estimation under Label Shift, Department colloquium, invited, Department of mathematics and statistics University of Texas Arlington, TX 9/2023
20. Doubly Flexible Estimation under Label Shift, Department colloquium, invited, Department of mathematics and statistics, Auburn University, AL 10/2023
21. Causal Inference and Missingness, Keynote talk, invited, Keystone Symposium, Penn State University, PA 10/2023
22. Doubly Flexible Estimation under Label Shift, Department colloquium, invited, Industrial Engineering, Penn State University, PA 9/2023
23. Doubly Flexible Estimation under Label Shift, keynote talk, invited, SIB-CAAS, Kunming, China 8/2023
24. Doubly Flexible Estimation under Label Shift, Department colloquium, invited, Shanxi University, Taiyuan, China 8/2023
25. Doubly Flexible Estimation under Label Shift, Department colloquium, invited, Fudan University, Shanghai, China 7/2023
26. Doubly Flexible Estimation under Label Shift, Department colloquium, invited, Guizhou University of Finance and Economics, Guiyang, China 7/2023

27. Doubly Flexible Estimation under Label Shift, Department colloquium, invited, Jiangsu Normal University, Xuzhou, China 7/2023
28. Semiparametric Learning, short course, invited, Remmin University, Beijing, China 7/2023
29. Network Functional Varying Coefficient Model, Wnar, invited, Anchorage, Alaska 6/2023
30. Semiparametric Learning, short course, invited, University of Geneva, Ovronnaz, Switzerland 5/2023
31. Robust and Efficient Estimation under Nonignorable Missing Response, Department colloquium, invited, University of Neuchatel, Neuchatel, Switzerland 5/2023
32. Robust and Efficient Estimation under Nonignorable Missing Response, Department colloquium, invited, Emlyon business school, Lyon, France 4/2023
33. Network Functional Varying Coefficient Model, department colloquium, invited, University of Geneva, Switzerland 4/2023
34. Robust and Efficient Estimation under Nonignorable Missing Response, Department colloquium, invited, University of Umeå, Sweden 3/2023
35. Robust and Efficient Estimation under Nonignorable Missing Response, joint institute colloquium, invited, Yangming Jiaotong University and Qinghua University, Taiwan 2/2023
36. Network Functional Varying Coefficient Model, department colloquium, invited, Statistica Sinica 2/2023
37. Network Functional Varying Coefficient Model, department colloquium, invited, City University of Hongkong 2/2023
38. Network Functional Varying Coefficient Model, department colloquium, invited, Hongkong polytech university 2/2023
39. Robust and Efficient Estimation under Nonignorable Missing Response, department colloquium, invited, University of Hongkong 2/2023
40. Network Functional Varying Coefficient Model, department colloquium, invited, Hongkong Baptist university 2/2023
41. Network Functional Varying Coefficient Model, Taiwan statistics annual result conference, invited, Shanlinxi 12/2022
42. Robust and Efficient Estimation under Nonignorable Missing Response, department colloquium, invited, University of Pittsburgh 11/2022
43. Network Functional Varying Coefficient Model, department colloquium, invited, University of Waterloo 9/2022
44. Network Functional Varying Coefficient Model, ICSA-Canada, invited, Banff 7/2022
45. Network Functional Varying Coefficient Model, IMS, invited, London 6/2022
46. Robust and Efficient Estimation under Nonignorable Missing Response, invited, ISNPS, Paphos 2/2022
47. An Update on Measurement Error Modeling, General talk, invited, Gouxiong Club, Online 6/2022
48. Network Functional Varying Coefficient Model, Department colloquium, invited, University of Wisconsin, Madison 4/2022
49. Robust and Efficient Estimation under Nonignorable Missing Response, Department colloquium, invited, University of Virginia, Charlottesville 2/2022
50. Robust and Efficient Estimation under Nonignorable Missing Response, CTSI-BERD seminar, invited, Penn State University, University Park 1/2022

51. Robust and Efficient Estimation under Nonignorable Missing Response, invited, Portland State University, Portland 11/2021
52. Network Functional Varying Coefficient Model, invited, Portland State University, Portland 11/2021
53. Robust and Efficient Estimation under Nonignorable Missing Response, invited, Qinghua University, Zoom to Beijing 11/2021
54. Network Functional Varying Coefficient Model, SMAC, invited, Penn State University, University Park 11/2021
55. Network Functional Varying Coefficient Model, departmental seminar, invited, University of North Carolina, Chapel Hill 10/2021
56. Measurement Error Models, invited, Yunnan University of Finance and Economics, Kunming 1/2020
57. Measurement Error Models, invited, South-western University of Finance and Economics, Chengdu 12/2019
58. Robust and Efficient Estimation under Nonignorable Missing Response, invited, University of Misourri, St Louis 9/2019
59. Robust distribution-free frailty model for clustered failure times: application to Huntingtons disease onset measures, invited, University of Misourri, St Louis 9/2019
60. Robust distribution-free frailty model for clustered failure times: application to Huntingtons disease onset measures, invited, Chinese Academy of Sciences, Beijing 7/2019
61. Robust and Efficient Estimation under Nonignorable Missing Response, invited, Northeastern university of Finance, Dalian 7/2019
62. Robust and Efficient Estimation under Nonignorable Missing Response, invited, IMS-China, Dalian 7/2019
63. Robust and Efficient Estimation under Nonignorable Missing Response, invited, ICSA-China, Tianjin 7/2019
64. On Estimation of General Index Model for Survival Data, 2019 Jilin University Biostatistics Workshop, invited, Changchun 6/2019
65. Robust and Efficient Estimation under Nonignorable Missing Response, invited, 2019 Big Data and Modern Statistics conference, Shanghai 6/2019
66. Robust and Efficient Estimation under Nonignorable Missing Response, invited, International Conference on Frontiers of Data Science, Hangzhou 5/2019
67. A Superpopulation Approach to Case-Control Data Analysis, departmental seminar, invited, Zhejiang Gongshang University, Hangzhou 5/2019
68. A Spline-assisted Semiparametric Approach to Nonparametric Measurement Error Models, departmental seminar, invited, Industrial Engineering, Penn State University 2/2019
69. On Estimation of General Index Model for Survival Data, Departmental seminar, invited, Hershey 1/2019
70. On Estimation of General Index Model for Survival Data, ICSA, invited, Xishuangbanna 1/2019
71. A Spline-assisted Semiparametric Approach to Nonparametric Measurement Error Models, departmental seminar, invited, Yunnan University of Finance and Economics, Shanghai 1/2019
72. On Estimation of General Index Model for Survival Data, IBS East Mediterranean Region in Honor of Bengamini, invited, Jerusalem 12/2018

73. On Estimation of General Index Model for Survival Data, Workshop on statistical analysis and data science, invited, Northeastern Normal University, Jilin — 12/2018
74. A Spline-assisted Semiparametric Approach to Nonparametric Measurement Error Models, departmental seminar, invited, East China Normal University, Shanghai — 11/2018
75. A Spline-assisted Semiparametric Approach to Nonparametric Measurement Error Models, departmental seminar, invited, New York University, Shanghai — 11/2018
76. A Spline-assisted Semiparametric Approach to Nonparametric Measurement Error Models, Department Colloquium, invited, Fudan University, Shanghai — 11/2018
77. A Spline-assisted Semiparametric Approach to Nonparametric Measurement Error Models, departmental seminar, invited, Shanghai Normal University, Shanghai — 10/2018
78. A Spline-assisted Semiparametric Approach to Nonparametric Measurement Error Models, 3+X conference, invited, Taian University, Taian — 10/2018
79. A Spline-assisted Semiparametric Approach to Nonparametric Measurement Error Models, departmental seminar, invited, Southwestern University of Finance and Economics, Chengdu — 9/2018
80. A Superpopulation Approach to Case-Control Data Analysis, departmental seminar, invited, Jiaotong University, Shanghai — 9/2018
81. A Superpopulation Approach to Case-Control Data Analysis, departmental seminar, invited, Jilin University, Changchun — 8/2018
82. A Superpopulation Approach to Case-Control Data Analysis, Conference on Statistics and Data Sciences, invited, Yinchuan — 8/2018
83. Optimal pseudolikelihood estimation in the analysis of multivariate missing data with nonignorable nonresponse invited, JSM, Vancouver — 8/2018
84. A Superpopulation Approach to Case-Control Data Analysis, departmental seminar, invited, Fudan University, Shanghai — 7/2018
85. A Superpopulation Approach to Case-Control Data Analysis, IMS-APRN, invited, Singapore — 6/2018
86. A Superpopulation Approach to Case-Control Data Analysis, Institute Seminar invited, Cambridge University, Cambridge — 6/2018
87. A Superpopulation Approach to Case-Control Data Analysis, ISNPS, invited, Salerno — 6/2018
88. A Superpopulation Approach to Case-Control Data Analysis, Conference on Statistical Learning and Data Science, invited, Columbia University, New York City — 6/2018
89. A Superpopulation Approach to Case-Control Data Analysis, Department Colloquium, invited, Northeastern Normal University, Changchun — 5/2018
90. A Superpopulation Approach to Case-Control Data Analysis, Department Colloquium, invited, East China Normal University, Shanghai — 5/2018
91. On Estimation of General Index Model for Survival Data, Department Colloquium, invited, Statstica Sinica, Taipei — 3/2018
92. On Estimation of General Index Model for Survival Data, Winter Nonparametric Conference, invited, University of Florida, Gainesville — 1/2018
93. On Estimation of General Index Model for Survival Data, Department Colloquium, invited, East China Normal University, Shanghai — 12/2017

94. On Estimation of General Index Model for Survival Data, Department Colloquium, invited, University of North Carolina, Charlotte, NC 11/2017
95. A Semiparametrics View to Dimension Reduction: Department Seminar, invited,State University of Buffalo, Buffalo, NY 10/2017
96. A Spline-assisted Semiparametric Approach to Nonparametric Measurement Error Models, departmental seminar, invited, ICSA-Canada, Vancouver 8/2017
97. On Estimation of General Index Model for Survival Data, Department Colloquium, invited, Shanghai University of Finance and Economics, Shanghai 7/2017
98. On Estimation of General Index Model for Survival Data, Department Colloquium, invited, Southwestern University of Finance and Economics, Chengdu 6/2017
99. On Estimation of General Index Model for Survival Data, IMS-China, invited, Nanning 6/2017
100. On Estimation of General Index Model for Survival Data, Department Colloquium, invited, Jinan University, Guangzhou 6/2017
101. On Estimation of General Index Model for Survival Data, Department Colloquium, invited, Yunnan University of Finance and Economics, Kunming 6/2017
102. Functional and Very High Dimension Reduction: Department Colloquium, invited, George Washington University, Washington DC 3/2017
103. Functional and Very High Dimension Reduction: Department Colloquium, invited, South-west University of Finance and Economics, Chengdu 12/2016
104. A Semiparametric View to Dimension Reduction: Department Colloquium, invited, Jinan University, Guangzhou 12/2016
105. Functional Dimension Reduction: ICSA-Meeting, invited, Jiaotong University, Shanghai 12/2016
106. Functional and Very High Dimension Reduction: Department Colloquium, invited, University of Georgia, Athens 12/2016
107. Functional and Very High Dimension Reduction: Department Colloquium, invited, Johns Hopkins University, Baltimore 10/2016
108. Functional and Very High Dimension Reduction: Department Colloquium, invited, University of New Hampshire, Manchester 10/2016
109. Functional and Very High Dimension Reduction: Latent Variable Conference, Plenary talk, University of South Carolina, Columbia 10/2016
110. Functional and Very High Dimension Reduction: Workshop on nonparametrics, invited, University of Michigan, Ann Arbor 09/2016
111. Functional and Very High Dimension Reduction: Department Colloquium, invited, University of Alberta, Edmonton 09/2016
112. Functional and Very High Dimension Reduction: Department Colloquium, invited, University of Kentucky, Arlington 09/2016
113. Functional and Very High Dimension Reduction: Workshop in honor of Elvezio Ronchetti, Plenary talk, Geneva 07/2016
114. Functional and Very High Dimension Reduction: ISNPS, Avignon 06/2016
115. Semiparametric Methods with Mixed Measurement Error and Misclassication in Covariates: SRCOS, Bentonville, AR 06/2016
116. Functional and Very High Dimension Reduction: Department Seminar, Jinan University 05/2016

117. Functional and Very High Dimension Reduction: Department Seminar, Guangzhou University 05/2016
118. Functional and Very High Dimension Reduction: Department Seminar, Shanghai University of Finance and Economics 05/2016
119. Functional and Very High Dimension Reduction: Big Data workshop, Renmin University 05/2016
120. Functional and Very High Dimension Reduction: Forcast Seminar, Chinese National Academy of Sciences 05/2016
121. Semiparametric Methods with Mixed Measurement Error and Misclassication in Covariates: Statistics Seminar, Chinese National Academy of Sciences 05/2016
122. Robust distribution-free frailty model for clustered failure times: application to Huntingtons disease onset measures: Department Seminar, University of Tel Aviv 03/2016
123. A Semiparametrics View to Dimension Reduction: Department Seminar, Michigan State University, East Lansing 02/2016
124. Robust distribution-free frailty model for clustered failure times: application to Huntingtons disease onset measures: Department Seminar, Penn State State University 01/2016
125. A Validated Information Criterion to Determine the Structural Dimension in Dimension Reduction Models: Conference of the Asian Regional Section of the IASC, National University of Singapore, Singapore, 12/2015
126. A Gentle Introduction to Semiparametric Dimension Reduction: Workshop on high dimensional statistical analysis, Statistica Sinica, Taipei, 12/2015
127. Semiparametric Methods with Mixed Measurement Error and Misclassication in Covariates: Survey Center Seminar, Iowa State University 09/2015
128. Robust distribution-free frailty model for clustered failure times: application to Huntingtons disease onset measures: Department Seminar, Iowa State University 09/2015
129. A Semiparametrics View to Dimension Reduction: Department Seminar, Clemson University, Clemson 09/2015
130. A Validated Information Criterion to Determine the Structural Dimension in Dimension Reduction Models: ICSA-Canada, Calgary 08/2015
131. A Semiparametrics View to Dimension Reduction: Department Seminar, Yunnan University of Finance and Econommics, Kunming 07/2015
132. A Validated Information Criterion to Determine the Structural Dimension in Dimension Reduction Models: IMS-China, Kunming 07/2015
133. A Validated Information Criterion to Determine the Structural Dimension in Dimension Reduction Models: ICSA, Denver 06/2015
134. A Semiparametrics View to Dimension Reduction: Department Seminar, University of York, York 05/2015
135. A Validated Information Criterion to Determine the Structural Dimension in Dimension Reduction Models: Workshop on Multivariate Analysis, Open University, Milton Keynes 05/2015
136. Robust distribution-free frailty model for clustered failure times: application to Huntingtons disease onset measures: Department Seminar, University of Minnesota 04/2015
137. Robust distribution-free frailty model for clustered failure times: application to Huntingtons disease onset measures: Department Seminar, UIUC 04/2015

138. A Semiparametrics View to Dimension Reduction: Institute Seminar, Institute of statistical mathematics, Tokyo 02/2015
139. Robust distribution-free frailty model for clustered failure times: application to Huntingtons disease onset measures: Statistica Sinica, Taipei 01/2015
140. A Semiparametrics View to Dimension Reduction: Department Seminar, University of Geneva 01/2015
141. Robust distribution-free frailty model for clustered failure times: application to Huntingtons disease onset measures: National Health Research Institute, Xinzhu 01/2015
142. Estimation, Inference and Efficiency in Dimension Reduction: ERCIM, Pisa 12/2014
143. Robust distribution-free frailty model for clustered failure times: application to Huntingtons disease onset measures: Plenary Talk, 1st International Conference on Big Data & Applied Statistics 11/2014
144. Estimation, Inference and Efficiency in Dimension Reduction: Department Seminar, North Carolina State University, Raleigh 11/2014
145. Estimation, Inference and Efficiency in Dimension Reduction: Biostatistics Forum, University of South Carolina, Columbia 11/2014
146. Estimation, Inference and Efficiency in Dimension Reduction: Department Seminar, University of Connecticut, Storrs 10/2014
147. Estimation, Inference and Efficiency in Dimension Reduction: Department Seminar, Pennsylvania State University, State College 09/2014
148. Estimation, Inference and Efficiency in Dimension Reduction: Department Seminar, University of Saskatchewan, Saskatoon, Canada 09/2014
149. Estimation, Inference and Efficiency in Dimension Reduction: International Statistics Workshop of Lanzhou University, Lanzhou 07/2014
150. Estimation, Inference and Efficiency in Dimension Reduction: IMS-APRM, Taiwan 07/2014
151. Estimation, Inference and Efficiency in Dimension Reduction: ISNPS, Cadiz, Spain 06/2014
152. Estimation, Inference and Efficiency in Dimension Reduction: Israel Institute of Technology (Technion), Haifa, Israel 04/2014
153. Estimation, Inference and Efficiency in Dimension Reduction: George Mason University, VA 03/2014
154. Estimating Disease Onset Distribution Functions in Mutation Carriers with Censored Mixture Data: University of South Carolina, Columbia 02/2014
155. Estimation, Inference and Efficiency in Dimension Reduction: University of California, Davis 02/2014
156. Estimation, Inference and Efficiency in Dimension Reduction: Winter Conference, Gainsville 01/2014
157. Estimation, Inference and Efficiency in Dimension Reduction: Department Seminar, Hongkong Baptist University 12/2013
158. Doubly Robust and Efficient Estimators for Heteroscedastic Partially Linear Single-Index Model Allowing High-Dimensional Covariates: ICSA International Conference, Hongkong 12/2013
159. Estimating Disease Onset Distribution Functions in Mutation Carriers with Censored Mixture Data: National Donghwau university, Hualien 12/2013
160. Nonparametric Estimation for Censored Mixture Data with Application to the Cooperative Huntingtons Observational Research Trial: National Sun Yat-Sen University, kaohsiung 12/2013

161. Efficient Semiparametric Distribution Estimation in Mixed Samples: Statstica Sinica, Taipei 12/2013
162. A Semiparametrics Approach to Dimension Reduction: Department Seminar, University of South Carolina 10/2013
163. Variance Estimation in the Analysis of Microarray Data: ISI, Hongkong 08/2013
164. Nonparametric Estimation for Censored Mixture Data with Application to the Cooperative Huntingtons Observational Research Trial: ICORS, St Petersburg 07/2013
165. Estimating Disease Onset Distribution Functions in Mutation Carriers with Censored Mixture Data: Renmin University, Beijing 07/2013
166. A short course on semiparametrics: Northeastern Normal University, Changchun 06/2013
167. Estimating Disease Onset Distribution Functions in Mutation Carriers with Censored Mixture Data: IAMCS Spring Symposium, KAUST 05/2013
168. A Semiparametrics Approach to Dimension Reduction: Department Seminar, Kansus State University 03/2013
169. A Semiparametrics Approach to Dimension Reduction: Workshop on Statistical Frontiers, Statistica Sinica 12/2012
170. A Semiparametrics Approach to Dimension Reduction: Department Seminar, University of Hongkong 11/2012
171. A Semiparametrics Approach to Dimension Reduction: Department Seminar, Hongkong Baptist University 11/2012
172. Nonparametric Estimation for Censored Mixture Data with Application to the Cooperative Huntingtons Observational Research Trial: Department Seminar, Shanghai University of Finance and Economics 10/2012
173. Explicit Estimating Equations for Semiparametric Generalized Linear Latent Variable Models: Department Seminar, Shanghai University of Finance and Economics 10/2012
174. A Semiparametrics Approach to Dimension Reduction: Department Seminar, Columbia University 09/2012
175. Analysis on Censored Quantile Residual Life Model via Spline Smoothing: ICORS 08/2012
176. A Semiparametrics Approach to Dimension Reduction: JSM, San Diego 08/2012
177. A Semiparametrics Approach to Dimension Reduction: Department Seminar, University of Manitoba, Winnipeg 07/2012
178. A Semiparametrics Approach to Dimension Reduction: Department Seminar, University of Melbourne, Melbourne 05/2012
179. A Semiparametrics Approach to Dimension Reduction: 12th Latin American Congress of Probability and Mathematical Statistics, Viña del Mar, plenary talk 03/2012
180. A Semiparametrics Approach to Dimension Reduction: Department Seminar, University of Geneva, Geneva 12/2011
181. A Semiparametrics Approach to Dimension Reduction: Department Seminar, Tilburg University, Tilburg 11/2011
182. A Semiparametrics Approach to Dimension Reduction: Department Seminar, University of Neuchâtel, Neuchâtel 11/2011
183. A Semiparametrics Approach to Dimension Reduction: Department Seminar, EPFL, Laussane 11/2011
184. A Semiparametrics Approach to Dimension Reduction: Department Seminar, Zhejiang Agricultural and Forestry University, Linan 11/2011

185. A Semiparametrics Approach to Dimension Reduction: Department Seminar, East China Normal University, Shanghai 11/2011
186. A Semiparametrics Approach to Dimension Reduction: Department Seminar, Fudan University, Shanghai 11/2011
187. A Semiparametrics Approach to Dimension Reduction: Department Seminar, Shanghai University of Finance and Economics, Shanghai 10/2011
188. A Semiparametrics Approach to Dimension Reduction: University College London, London 07/2011
189. A Semiparametrics Approach to Dimension Reduction: ICORS, Valladolid 06/2011
190. A Semiparametrics Approach to Dimension Reduction: Statistics Workshop, Technical University of Munich 06/2011
191. A Semiparametrics Approach to Dimension Reduction: IAMCS Conference on Inverse Problems, Texas A&M University 05/2011
192. Efficient Semiparametric Distribution Estimation in Mixed Samples: Inverse Problem Workshop, Texas A&M University 05/2011
193. Locally Efficient Semiparametric Estimators for Functional Measurement Error Models: IAMCS Seminar, Texas A&M University 03/2011
194. Efficient Semiparametric Distribution Estimation in Mixed Samples: Department Seminar, Rutgers University 03/2011
195. Explicit Estimating Equations for Semiparametric Generalized Linear Latent Variable Models: Swedish Winter Conference, Hemavan Tarnabyu 03/2011
196. Efficient Semiparametric Distribution Estimation in Mixed Samples: Department Seminar, Colorado State University 02/2011
197. Analysis on Censored Quantile Residual Life Model via Spline Smoothing: Department Seminar, University of Texas Southwestern Medical Center 02/2011
198. Efficient Semiparametric Distribution Estimation in Mixed Samples: Department Seminar, Southern Methodist University 02/2011
199. Explicit Estimating Equations for Semiparametric Generalized Linear Latent Variable Models: Department Seminar, Hongkong Baptist University 01/2011
200. Efficient Semiparametric Distribution Estimation in Mixed Samples: Department Seminar, Hongkong University 01/2011
201. Analysis on Censored Quantile Residual Life Model via Spline Smoothing: Special Department Seminar, Shanghai University of Finance and Economics 12/2010
202. Efficient Semiparametric Distribution Estimation in Mixed Samples: Special Department Seminar, Xiamen University 12/2010
203. Explicit Estimating Equations for Semiparametric Generalized Linear Latent Variable Models: International Workshop on Emerging Issues and Challenges to Statistics, Gulangyu, China 12/2010
204. Efficient Semiparametric Distribution Estimation in Mixed Samples: Department Seminar, Temple University 11/2010
205. Explicit Estimating Equations for Semiparametric Generalized Linear Latent Variable Models and More: Brown Bag Seminar, TAMU 10/2010
206. Efficient Semiparametric Distribution Estimation in Mixed Samples: Special Workshop, Catholic University of Chile, Santiago 08/2010
207. Efficient Semiparametric Distribution Estimation in Mixed Samples: Special Workshop, University of Concepcion, Chile 08/2010

208. Efficient Semiparametric Distribution Estimation in Mixed Samples: Special Workshop, Federal University of Minas Gerais, Belo Horizonte, Brazil — 08/2010
209. Explicit Estimating Equations for Semiparametric Generalized Linear Latent Variable Models: 1st conference on applied probability and statistical methods, Maresias, Brazil — 08/2010
210. Efficient Semiparametric Distribution Estimation in Mixed Samples: Department Seminar, Pennsylvania State University — 07/2010
211. Efficient Semiparametric Distribution Estimation in Mixed Samples: Icors, Prague — 06/2010
212. Efficient Semiparametric Distribution Estimation in Mixed Samples: Department Seminar, University of Heidelberg — 05/2010
213. Locally Efficient Semiparametric Estimators for Functional Measurement Error Models: Department Seminar, Columbia University — 10/2009
214. Functional Estimation in Semiparametric Models: International Symposium on Statistics and Management Science, Shanghai — 07/2009
215. Parameter and Functional Estimation in Semiparametric Models: International Conference on Nonparametrics and High Dimensional Data, Chengdu — 07/2009
216. Score-type Test in Semiparametric Measurement Error Models, with Application in Testing Lack of Fit test: IMS-China, Weihai — 06/2009
217. Cure Rate Model with Mismeasured Covariates under Transformation, IMS-APRM, Seoul, Korea — 06/2009
218. Parameter and Functional Estimation in Semiparametric Models: Department Seminar, University of Santiago de Compostelo, Spain — 06/2009
219. Score-type Test in Semiparametric Measurement Error Models, with Application in Testing Lack of Fit: Workshop in Measurment Error Models and Related Nonparameric Models, Fields Institute, Ottawa — 05/2009
220. Variable Selection in Measurement Error Models: IMS-China, Hangzhou — 06/2008
221. Locally Efficient Semiparametric Estimators for Functional Measurement Error Models: Department Seminar, Universite of Fribourg — 04/2008
222. Parameter and Functional Estimation in Semiparametric Models: Department Seminar, Cambridge University, England — 03/2008
223. Locally Efficient Semiparametric Estimators for Functional Measurement Error Models: Department Seminar, Katholic University of Leuvan, Belgium — 02/2008
224. Parameter and Functional Estimation in Semiparametric Models: Department Seminar, Academia Sinica, Taipei — 01/2008
225. Measurement Error Models with Unknown Error Structure, International Conference on Multiple Decisions and Related Topics in Honor of D.Y. Huang, Taipei — 12/2007
226. Parameter and Functional Estimation in Semiparametric Models: Department Seminar, East China Normal University, Shanghai — 12/2007
227. Recent Development in Measurement Error Models: Department Seminar, ETH Lausanne — 11/2007
228. Cure Rate Model with Mismeasured Covariates under Transformation, Nonparametrics Conference, Bristol — 11/2007
229. Measurement Error Models with Unknown Error Structure, Icors, Buenos Aires — 09/2007
230. Parameter and Functional Estimation in Semiparametric Models: Swiss Annual Statistical Meeting, Bern — 05/2007

231. Statistics in Health: University of Neuchâtel, Neuchâtel, Inaugural Lesson 05/2007
232. Parameter and Functional Estimation in Semiparametric Models: Department Seminar, MD Anderson Cancer Center 04/2007
233. Locally Efficient Semiparametric Estimators for Functional Measurement Error Models: Department Seminar, Universite of Geneva 03/2007
234. Recent Development in Measurement Error Models: Department Seminar, ETH Zurich 01/2007
235. Efficient Functional Estimation in Semiparametric Models: Annual Meeting of the Swiss Statistical Society, Lugano 11/2006
236. Locally Efficient Semiparametric Estimators for Functional Measurement Error Models: Department Seminar, Universite de Neuchâtel 11/2006
237. Locally Efficient Semiparametric Estimators for Functional Measurement Error Models: Department Seminar, Fudan University 09/2006
238. Locally Efficient Estimators for Semiparametric Models With Measurement Error: Workshop of New Researchers in Statistics and Probability, University of Washington, Seattle, Washington, poster 08/2006
239. Locally Efficient Semiparametric Estimators for Functional Measurement Error Models: Department Seminar, Pennsylvania State University 06/2006
240. Locally efficient estimators in semiparametric models with measurement error: COTS 03/2006
241. Locally Efficient Semiparametric Estimators for Functional Measurement Error Models, with Application in Biostatistics: Department Seminar, Université de Geneve 01/2006
242. Locally Efficient Semiparametric Estimators for Functional Measurement Error Models, with Application in Biostatistics: Department Seminar, Université de Toulouse I 01/2006
243. Locally Efficient Estimators for Semiparametric Models With Measurement Error: Focused Research Group Conference on Nonparametric Models for Complex Biological Data, University of California, Davis 08/2005
244. Locally Efficient Semiparametric Estimator for Measurement Error Models: Department Seminar, University of New South Wales 06/2005
245. Locally Efficient Semiparametric Estimator for Measurement Error Models, with Recent Extension: Department Seminar, Australian National University 06/2005
246. Locally Efficient Semiparametric Estimator for Measurement Error Models: Department Seminar, Rice University 04/2005
247. Locally Efficient Semiparametric Estimator for Measurement Error Models: ISI, Sydney 04/2005
248. Locally Efficient Semiparametric Estimator for Generalized Skew-Elliptical Distributions: Department Seminar, University of California, Santa Barbara 03/2005
249. Locally Efficient Semiparametric Estimator for Generalized Skew-Elliptical Distributions: Workshop on skew distributions, Guanajuato, Mexico 12/2004
250. Locally Efficient Semiparametric Estimator for Measurement Error Models: Harvard University 02/2004
251. Locally Efficient Semiparametric Estimator for Measurement Error Models: Texas A&M University 02/2004

252. Locally Efficient Semiparametric Estimator for Measurement Error Models: University of California, Irvine 02/2004
253. Locally Efficient Semiparametric Estimator for Measurement Error Models: Ohio State University 01/2004
254. Skew-Elliptical Distributions: Semiparametric Theory, Generalization and Application in Mixed Effect Models: Biostatistics Seminar, North Carolina State University 01/2004
255. Skew-Elliptical Distributions: Semiparametric Theory, Generalization and Application in Mixed Effect Models. Dalhousie University, Mathematics Department Seminar 10/2003
256. A Simulation Based Comparison Between Parametric and Semiparametric Method in a PBPK Model: Inverse Problem Conference, University of California, Los Angeles 07/2003
257. Linear Mixed Effect Models With Semiparametric Generalized Skew-Elliptical Random Effects: International Conference on Statistics, Combinatorics and Related Areas, University of Southern Maine 06/2003
258. Skew-Elliptical Distributions: Semiparametric Theory, Generalization and Application in Mixed Effect Models. University of Kentucky, Mathematics and Statistics Department Seminar 05/2003

Contributed

259. A Semiparametrics Approach to Dimension Reduction: Enar, Miami, poster 03/2011
260. Measurement Error Models with Unknown Error Structure: Enar, Virginia 03/2008
261. Locally Efficient Estimators for Semiparametric Models With Measurement Error: JSM, Seattle, Washington, poster 08/2006
262. Doubly Robust semiparametric estimator in heteroscedastic partially linear models: Icors, Lisbon, Portugal 07/2006
263. Semiparametric estimator in partially linear models: Probastat, Smolenice Castle, Slovak Republic 06/2006
264. Locally efficient estimators in semiparametric models with measurement error: Enar 03/2006
265. Semiparametric estimator in partially linear models: Nonparametric Workshop, Texas A&M University 01/2005
266. Linear Mixed Effect Models With Semiparametric Generalized Skew-Elliptical Random Effects: Joint Statistical Meeting, Toronto 08/2004
267. A Semiparametric Class of Generalized Skew-Elliptical Distributions: International Biometric Society Meeting (ENAR) 03/2003
268. A Semiparametric Class of Generalized Skew-Elliptical Distributions: Joint Statistical Meeting, San Francisco 08/2003

**Students Supervised**

PhD students

Zhewei Zhang

Kihyun Han

Mushan Li

Seong-Ho Lee (2023)

Samidha Shetty (2023)

Trinetri Ghosh (2021)

Mengyan Li (2020)

Yizheng Wei (2020)

Ge Zhao (2019)
Qianqian Wang (2018)
Seungchul Baek (2018)
Jianxuan Liu (2017)
Liang Liang (Coadvised with Raymond Carroll, 2017)
Shahina Rahman (Coadvised with Raymond Carroll, 2015)
Kun Xu (2013)
Fei Jiang (Coadvised with Jack Lee, Rice University, 2013)
Mi Jeong Kim (2012)
Tanya Garcia (2011)
Pei-Chun Lai (Coadvised with David Bessler, Department of Agricultural Economics, 2010)
Arnab Maity (Coadvised with Raymond Carroll, 2008)

Master students

Anthea Monod (2007)
Mouhamad Moudassir (2007)
Linh Chi Dinh (2007)
Vincent Bugnon (2007)
Gisela Ribary (2007)

**Teaching**

| | |
|---|---|
| Theory of Statistics I, Penn State U | Fall 2021 |
| Semiparametrics, Penn State U | Spring 2021 |
| Theory of Statistics I, Penn State U | Fall 2020 |
| Applied statistics and design of experiment, Penn State U | Spring 2020 |
| Introduction to Mathematical Statistics, Penn State U | Fall 2019 |
| Introduction to Mathematical Statistics, Penn State U | Spring 2019 |
| Introduction to Mathematical Statistics, Penn State U | Fall 2018 |
| Applied statistics and design of experiment, Penn State U | Spring 2018 |
| Semiparametrics, Penn State U | Spring 2018 |
| Introduction to Mathematical Statistics, Penn State U | Fall 2017 |
| Advanced Survival Analysis, Penn State U | Spring 2017 |
| Introduction to Mathematical Statistics, Penn State U | Fall 2016 |
| Elementary Statistics for the Biological and Life Sciences, USC | Spring 2016 |
| Elementary Statistics for the Biological and Life Sciences, USC | Fall 2014 |
| Principles of Statistics, TAMU | Fall 2013 |
| Statistical Inference, TAMU | Fall 2013 |
| Short Course on Semiparametrics, North East Normal Unoversity | Summer 2013 |
| Principles of Statistics, TAMU | Spring 2013 |
| Principles of Statistics, TAMU | Spring 2012 |
| Theory of Statistics: Estimation and Inference, TAMU | Spring 2012 |
| Nonparametric Function Estimation, TAMU | Spring 2011 |
| Principles of Statistics, TAMU | Fall 2010 |
| Principles of Statistics, TAMU | Fall 2009 |
| Nonparametric Function Estimation, TAMU | Spring 2009 |
| Principles of Statistics, TAMU | Fall 2008 |
| Semiparametric Statistics, University of Neuchâtel | Spring 2008 |
| Nonparametric Statistics, University of Neuchâtel | Spring 2008 |
| Regression Models, University of Neuchâtel | Spring 2008 |

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|---|---|---|
| | Statistics Inference, University of Neuchâtel | Fall 2007 |
| | Advance Regression Analysis, University of Neuchâtel | Fall 2007 |
| | Rank Statistics, University of Neuchâtel | Spring 2007 |
| | Generalized Linear Models, University of Neuchâtel | Spring 2007 |
| | Regression Analysis, University of Neuchâtel | Fall 2006 |
| | Regression Models, University of Neuchâtel | Fall 2006 |
| | Principles of Statistics, Honor Session, TAMU | Spring 2006 |
| | Principles of Statistics, TAMU | Fall 2005 |
| | Principles of Statistics, TAMU | Spring 2005 |
| | Principles of Statistics, TAMU | Fall 2004 |
| | SAMSI Inverse Problem Workshop, NCSU | Summer 2003 |
| | Woman in Math Program, Mentor, MIT | Spring 2003 |
| | Woman in Math Program, Mentor, MIT | Fall 2002 |
| | Applied Mathematics for Engineers, MIT | Summer 1998 |
| | Applied Mathematics for Engineers, MIT | Summer 1996 |
| | Linear Algebra, Recitation Session Instructor, MIT | Spring 1998 |
| | Multivariable Calculus, Recitation Session Instructor, MIT | Fall 1996 |
| | Parallel Computing for Professionals, Lab Instructor, MIT | summer 1996 |
| | US High School Mathematical Research Program, Mentor, MIT | Summer 1996 |
| **Honors** | Fellow of American Statistical Association | 2017 |
| | Fellow of Institute of Mathematical Statistics | 2017 |
| | Elected ISI member | 2009 |
| | SIAM student travel award, SIAM | 1999 |
| | Fellowship of Applied Mathematics, MIT | 1996 |
| | National Mathematics Competition, First Prize, China | 1988, 1989 |
| **Committees** | Scientific Committee for ISNPS, Salerno | 2018 |
| | Scientific Committee for ICORS, Geneva and Wollongong | 2016, 2017 |
| | Organize workshop in BIRS, Canada | 2016 |
| | PhD thesis committee member: Mitch Phillipson, department of mathematics, Texas A&M University | 2011-2014 |
| | Organise an invited session on measurement error for ICSA, Hongkong | 2013 |
| | Organise an invited session on high dimensional data for ICORS, Burlington | 2012 |
| | Organise an invited session on measurement error for ICSA, NYC | 2011 |
| | Organise (with Raymond Carroll) workshop on measurement error at Texas A&M | 2011 |
| | PhD thesis main examiner (opponent): Jenny Häggström, Selecting smoothing parameters and causal inference. Umeå University, Sweden | 2011 |
| | PhD thesis committee external reviewer: Zhijian Chen, Analysis of Correlated Data with Measurement Error in Responses or Covariates. University of Waterloo, Canada | 2010 |
| | PhD thesis committee of Liwei Yin: Department of Civil Engineering, Texas A&M University | 2010 |
| | Habilitation committee: Gabriela Ciuperca, Statistical inference for non-identifiable models, entropy estimation and applied statistics. University Lyon I, France | 2009 |
| | Swiss statistical society: Research and Education Committee | 2006-2009 |

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|---|---|---|
| | International exchange committee: University of Neuchâtel/Liaoning University of Technology, China | 2006-2008 |
| | Seminar organizer: Department of Statistics, University of Neuchâtel | 2006-2008 |
| | PhD thesis committee of Kacem Iaych: Department of Mathematics, University of Geneva | 2007 |
| | Master thesis committee of Camilo Malagon-Nieto, Department of Petroleum Engineering, Texas A&M University | 2006 |
| **Service** | Joint Conference on Statistical and Data Science Program Committee, member | 2025 |
| | ICSA China conference program committee, member | 2025 |
| | Department AC-40 review committee, Member in Penn State | 2024 |
| | Department P&T committee, Chair and Member in Penn State | 2023-2024 |
| | College P&T committee, Member, | 2023-2024 |
| | Organize Banff Workshop on Bridging statistical strategies for censored covariates | 2023-2024 |
| | Staff Program Support Endowment committee | 2022 |
| | Selection Committee Member of Inaugural Rousseeuw Prize for Statistics | 2022 |
| | Evaluator of hiring of Institute of Statistics and Data Science, National Taiwan University | 2022 |
| | Evaluator of 2022 Academia Sinica Career Development Award | 2021 |
| | Department Graduate Student admission committee in Penn State | 2021-2022 |
| | College Eberly fellow recruitment committee in Penn State | 2021-2022 |
| | Department P&T committee Chair in Penn State | 2021-2022 |
| | Department Promotion committee Chair non-tenure line in Penn State | 2021-2022 |
| | Department Research professor hiring committee in Penn State | 2021-2023 |
| | College P&T committee in Penn State | 2019, 2020 |
| | Department Qualifying Exam committee Chair in Penn State | 2019-2020 |
| | PhD Thesis Evaluation for University of Sydney | 2019 |
| | Master Thesis Evaluation for University of Melbourne | 2019 |
| | Student Competition Paper Reviewer for ASA Life Science Society | 2019 |
| | External grant proposal Reviewer for Hongkong Sciences Foundation | 2019 |
| | External PhD Thesis Reviewer for New South Wales University | 2019 |
| | Member of Scientific Committee of ICSA Conference on Data Science | 2019 |
| | Chair of Section on Nonparametric Statistics Program of ASA | 2019-2020 |
| | External grant proposal Reviewer for Swedish Sciences Foundation | 2018 |
| | Departmental PhD qualifyng exam committee in Penn State | 2018 |
| | Wrote many letters for job hunting, ASA fellow, tenure and promotion | 2016-current |
| | Departmenal P&T committee in Penn State | 2016-2018 |
| | Department search committee in Penn State | 2016,2017 |
| | Organizing committee of conference in USC | 2016 |
| | External evaluation letter for promotion and/or tenure/reappointment | 2015(1), 2016(2), 2017(1 |
| | Served on ICSA Board of Directors | 2016–2018 |
| | Served on NSF panel | 2014, 2017, 2024 |
| | AE of the Scandinavian Journal of Statistics | 2025-current |
| | AE of the Electronic Journal of Statistics | 2022-current |
| | AE of the Journal of the Royal Statistical Society, Series B | 2013-2017 |
| | AE of the Journal of the American Statistical Association, | 2017-2019 |

AE of Biometrics, 2018-current

AE of the Journal of Statistical planning and Inference 2019-current

AE of the Journal of Statistical Theory and Related Fields 2019-current

AE of the Annals of the Institute of Statistical Mathematics 2010-current

AE of Stat 2012-current

Served as referee for: Journal of the American Statistical Association. Biometrika. Biometrics. Econometric Theory. Journal of the Royal Statistical Society, Series B. Annals of Statistics. Psychometrika. Bernoulli. Computational Statistics. Computational Statistics and Data Analsysis. Communications in Statistics. Annals of Statistical Mathematics. Journal of Multivariate Analysis. Journal of Nonparametric Statistics. Journal of Statistical Planning and Inference. Metron. Statistica Sinica. Brazilian Journal of Statistics. Statistics. Columbian Journal of Statistics. Psychometrika.

Served as referee for: Chilean national science foundation (4). Research Grants Council of Hong Kong (3, 2019).

Served as external tenure and promotion reviewer.

Wrote many recommendation letters.

**Memberships**

International Statistics Institute (ISI)

American Statistical Association (ASA)

Institute of Mathematical Statistics (IMS)

International Biometric Society (ENAR)

International Chinese Statistical Association (ICSA)