CONTACT INFORMATION

Department of Mathematical and Statistical Sciences
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EDUCATION

Ph.D. Statistics, University of Alberta, Edmonton, Alberta, Canada 2009
- *Dissertation*: On Multivariate Quantile Regression: Directional Approach and Application on Growth Charts (*Advisor*: Prof. Ivan Mizera)

M.S. Probability and Statistics, Peking University, Beijing, China 2002
- *Dissertation*: Monte Carlo Filter and an Application in a Signal Modulated Model (*Advisor*: Prof. Zhongjie Xie)

B.S. Probability and Statistics, Beijing Normal University, Beijing, China 1999

RESEARCH INTERESTS

Functional and Neuroimaging Data Analysis
- Varying coefficient model, Multiscale adaptive regression model, Imaging genetics, Connectivity Analysis, MRI, fMRI, and DTI data analysis

Statistical Machine Learning
- Sparse learning, Ensemble Learning, Adaptive learning, Predictive Learning, online learning, Deep learning and Reinforcement learning, Differential Privacy, Bias and Fairness

Robust Statistics and Quantile Regression
- Multivariate, Functional, and Bayesian quantile regression, Depth-based methods, Robustness in neuroimaging data analysis, Robustness in machine learning and optimization

Artificial Intelligence in Smart Health
- Health data analysis and privacy, Multi-omics data integration, Precision medicine and dynamic treatment regime, EHR and healthcare streaming data analysis

PROFESSIONAL EXPERIENCE

Academic Position:
- **Canada CIFAR AI Chair** 2021-present
- **Canada Research Chair in Statistical Learning** 2020-present
- **Professor**, Dept. of Math. and Stat., University of Alberta 2022-present
- **Associate Professor**, Dept. of Math. and Stat., University of Alberta 2018-2022
- **Assistant Professor**, Dept. of Math. and Stat., University of Alberta 2012-2018

Editorial Service:
- Associate Editor, Statistics and Its Interface, 2022-present
- Associate Editor, Journal of the American Statistical Association, Applications & Case Studies, 2019-present
- Associate Editor, Canadian Journal of Statistics, 2017-present
- Guest Editor, Statistics and Its Interface, 2022-2023
- Guest Associate Editor, Frontiers in Neuroscience, 2021-2022
- Guest Editor, Canadian Journal of Statistics, 2019-2021
- Associate Editor, International Journal of Imaging Systems and Technology, 2019-2020

Extended Visits:
- **Research Fellow**, Stat and Appl Math Sci Inst (SAMSI) 08-12/2015
- **New Research Fellow**, Stat and Appl Math Sci Inst (SAMSI) 01-05/2014
- **Visiting Assistant Professor**, Department of Biostatistics, UNC-CH 06-07/2013
- **Visiting Scholar**, Department of Computer Science, University of Georgia 01/2012

Research Experience:
- **Postdoctoral Fellow**, Department of Biostatistics, UNC-CH 2010-2012

- **Postdoctoral Fellow**, Dept. of Stat. and Prob., Michigan State University 2009-2010
- **Research Associate**, Faculty of Nursing, University of Alberta 2008-2009
- **Research Assistant**, Faculty of Nursing, University of Alberta 2007-2008

Teaching Experience:

- **Sessional Lecturer**, Dept. of Math. and Stat., University of Alberta 2008-2009
- **University Teaching Program**, University of Alberta 2006-2009
- **Teaching Assistant**, Dept. of Math. and Stat., University of Alberta 2003-2008
- **Instructor**, Beijing Huijia Private School 2002-2003
- **Teaching Assistant**, Department of Statistics, Peking University 2000-2002

Consulting Experience:

- **Coordinator** at Training Consultant Centre (TCC), University of Alberta 2007-2008
- **Statistical Consultant** at TCC, University of Alberta 2005-2008
- **Statistical Consultant** for individual projects, University of Alberta 2005-2007

Honors and Awards

- Fellow of Alberta Machine Intelligence Institute (Amii), CIFAR 2021
- Representative to Future Leaders Program of Japan's STS Forum, NSERC 2018
- Great Supervisor Award, University of Alberta 2018
- Josephine Mitchell Mentoring Award, University of Alberta 2017
- Research Fellow, Stat and Applied Math Sciences Institute (SAMSI) 2015
- IMS New Researchers Conference Travel Award, IMS 2014
- New Research Fellow, Stat and Applied Math Sciences Institute (SAMSI) 2014
- IMS New Researchers Conference Travel Award, IMS 2013
- SAMSI Neuroimaging Data Analysis Workshop Travel Award, SAMSI 2013
- Discovery Grant of Early Career Researcher (ECR) Supplement, NSERC 2013
- ENAR Workshop for Junior Researchers Travel Award, ENAR 2013
- Developing Statistical Methods for Neuroimaging Workshop Scholarship, NSF 2012
- Student Travel Award, Statistical Society of Canada 2008
- The Best Consultant of the Year 2007, University of Alberta 2007
- Mary Louise Imrie Graduate Student Award, University of Alberta 2007
- Josephine Mitchell Scholarship, University of Alberta 2005
- Provost Doctoral Entrance Award, University of Alberta 2004
- Eoin L. Whitney Scholarship, University of Alberta 2004
- Pundit RD Sharma Memorial Graduate Student Award, University of Alberta 2003
- GangSong Graduate Student Scholarship, Peking University 2000
- Second Rank Major Scholarship, Beijing Normal University 1998
- Third Rank Major Scholarship, Beijing Normal University 1997
- Second Rank Major Scholarship, Beijing Normal University 1996
- Second Rank in National High School Mathematical Olympics Contest in China 1994

Media Releases

- Research chair brings a statistical perspective to make AI more reliable — and responsible, Folio, University of Alberta. 2022
- Amii welcomes Linglong Kong as new Canada CIFAR AI Chair, Alberta Machine Intelligence Institute (Amii). 2022
- CIFAR, Amii and the Vector Institute name eight new Canada CIFAR AI Chairs, Canadian Institute for Advanced Research (CIFAR). 2022
- Three new Fellows join Amii team, Alberta Machine Intelligence Institute (Amii). 2022
- AI researchers improve method for removing gender bias in natural language processing, Folio, University of Alberta. 2022
- Two faculty members named Canada Research Chairs, Faculty of Science, University of Alberta. 2020
- Financial intelligence: Meet the minds behind the next big movement in money—artificial intelligence, Contours, Faculty of Science, University of Alberta. 2020
- Using AI to combat gender and ethnic bias in the job market, Faculty Science, University

of Alberta. 2020
- Statisticians step up to aid neurological health research, Faculty of Science, University of Alberta. 2016

Fundings and Grants

Current:

- Application of Explainability AI(XAI) in risk management department, MITACS $110,000 (PI), 2024 - 2026
- Integrating Dark Data into Diagnostic Biomarkers, Alberta Innovates AICE - Concepts $600,000 (Co-PI $60,000, PI Richard Fahlman - UAlberta) 2024 - 2026
- *Minimizing Bias, Promoting Fairness for AI*, MITACS $52,500 (PI), 2024 - 2024
- *Developing a framework for the evaluation of disclosure risks from tabular synthetic health data*, CIFAR AI Catalyst project $44,000 (Co-PI, PI Khaled Emam- UOttawa) 2023 - 2024
- Reinforced Sequential Experimental Design, Amii RAP, $30,000 (PI) 2023-2024
- Estimation and inference under local-differential privacy, Amii RAP, $28,000 (PI) 2023-2024
- Debias with Sufficiency: A Theoretically-Grounded Framework for Feature Elimination in Vector Representation, Amii RAP, $30,000 (PI) 2023-2024
- *Understanding and predicting response to surgery for Trigeminal Neuralgia*, CIHR $929,475 (Co-PI $92,947.50, PI Tejas Sankar - UAlberta) 2023 - 2028
- *Pyroptosis in the CNS: molecular mechanisms and therapeutic targets in progressive MS*, CIHR $1,032,750 (Co-PI $103,275, PI Chris Power - UAlberta) 2022 - 2027
- Personalized Online Learning and Dynamic Inference, Canada CIFAR AI Chair, $300,000 (PI) 2021-2026
- *Novel Statistical Methods in Neuroimaging Data Analysis*, Canada Research Chair, $700,000 (PI) 2020-2025
- *BIAS: Responsible AI for Labour Market Equality*, Canada-UK AI Initiative, $460,000 (PI; Co-PIs: Bei Jiang, Nicole Denier, Karen Hughes - U Alberta) 2020-2024
- *Novel Statistical Methods in Functional and Brain Imaging Data Analysis*, NSERC-RGPIN, $246,000 (PI) 2018-2024

Past:

- *High-performance Machine Learning Models for Financial Forecasting*, MITACS $30,000 (PI), 2023-2023
- *Frailty risk detection from primary care electronic medical records*, MITACS $45,000 (PI), 2022-2023
- *Novel statistical modeling of neuroimaging and genetic data with an application to Alzheimer's risk prediction*, CANSSI $140,000 (Co-PI, Co-PI: Dehan Kong - UToronto), 2021-2023
- *Distributional Reinforcement Learning: Theories and Applications*, UAHIJIC, $202,500 (PI) 2020-2023
- *Automatic Classification of Normal and Dysphagic Swallows Based on the sEMG Signals*, MITACS $30,000 (PI), 2022-2022
- *High Dimensional Sampling in Reinforcement Learning and its Applications*, HTCCL, $156,000 (PI) 2020-2022
- *Online Data Imputation by Modified Mixture Density Networks*, MITACS $30,000 (PI), 2021-2022
- *Indoor Virtual Tour and Virtual Object Display in 360 Degrees*, MITACS, $213,333.33 (Co-PI $53,333.33, PI, Di Niu - UAlberta) 2021-2022
- *Zipstall — On-line and Off-line Parking Availability Prediction*, MITACS $30,000 (PI), 2021-2021
- *AI-Enabled Subnetwork Selection*, MITACS, $15,000 (PI) 2021-2021
- *A Principled Approach to Developing Machine Learning Models for the Synthesis of Structured Health Data*, MITACS, $135,000 (Co-PI; Co-PIs: Bei Jiang - U Alberta and Yan Liu - Concordia Univ.) 2020-2021
- *Statistical Machine Learning for Urban Transportation System*, MITACS, $30,000 (PI) 2020-2020

- *Augmented decision making capabilities for innovation management and continuous improvement by organizations*, MITACS $30,000 (PI), 2019-2019
- *Cognitive Dissonance in Financial Wellbeing: Using Statistical Machine Learning to Understand Perceived and Objective Financial Fitness*, $36,000 (PI), 2019-2019
- *Feature selection for Deep Learning applied to the identification of impaired drivers*, MITACS $30,000 (PI), 2019-2019
- *Anomaly detection and simulation for unlabeled sensor data*, MITACS, $45,000 (PI), 2018-2019
- *Robust estimation of treatment effects in high-dimensional heterogeneous data with application to e-commerce*, NSERC ENGAGE, $25,000 (PI) 2018-2018
- *Genome-wide diet-gene interaction analysis for risk of psychiatric comorbidity in inflammatory bowel disease,* WCUC Collaborative Project Seed Funding, $20,000 (Co-PI, PI: Pingzhao Hu - U Manitoba), 2017-2019
- *Statistical Machine Learning Framework in Retention and Attrition Modelling*, MITACS, $30,000 (PI), 2017-2018
- *Statistical machine learning applied to screening drivers with cognitive impairment*, NSERC ENGAGE, $25,000 (PI), 2017-2017
- *New statistical machine learning methods applied to high dimensional sensory input data from chemistry*, MITACS, $30,000 (PI), 2017-2017
- *Joint Analysis of Neuroimaging Data: High-dimensional Problems, Spatio-Temporal Models and Computation*, CANSSI-CRT, $180,000 (Co-PI, Co-PI: Farouk Nathoo - U Victoria), 2016-2019
- *Using statistical methods to study the relationships between fat and weight changes during pregnancy and early postpartum*, WCHRI, $50,000 (Co-PI, PI: Yan Yuan - U Alberta), 2016-2018
- *Analyzing Real Estate Transaction and Pricing Data via Statistical Machine Learning*, NSERC-CRDPJ, $270,000 (Co-PI, PI: Di Niu - U Alberta), 2015-2018
- *Quantile Regression in Brain Imaging Data Analysis*, NSERC-RGPIN, $75,000 (PI), 2013-2018
- Start-up Funds, University of Alberta, $50,000 (PI), 2012-2015

PUBLICATIONS

$^+$, * , and $^-$ indicate equal contributions, corresponding author, and trainees supervised.

Peer-reviewed Journals:

[1] Wang, K., Chen, Y., Han, Y. $^-$, Xu, W.*, and **Kong, L.*** (2024). Adaptive Selection for False Discovery Rate Control Leveraging Symmetry, *Journal of the American Statistical Association*, invited revision submitted.

[2] Xie, J.$^-$, Yan, X., Jiang, B., and **Kong, L.*** (2023). Statistical inference for smoothed quantile regression with streaming data, *Journal of Econometrics*, invited revision submitted.

[3] Han, D.$^+$, Xie, J.$^{+-}$, Liu, J., Sun, L., Huang, J., Jiang, B., and **Kong, L.** (2023). Inference on High-dimensional Single-index Models with Streaming Data, *Journal of Machine Learning Research*, invited revision submitted.

[4] Xie, J.$^-$, Shi, E.$^-$, Shang, Z., Sang, P., Jiang, B., and **Kong, L.** (2023). Scalable inference in functional linear regression with streaming data, *Annals of Statistics*, invited revision submitted.

[5] **Kong, L.**, Luo, X., Xie, J., Zhu, L., and Zhu, H. (2023). A functional nonlinear mixed effects modeling framework for longitudinal functional responses, *Electronic Journal of Statistics*, invited revision submitted.

[6] Zhou, X., Kong, D., Pietrosanu, M., Karunamuni, R., and **Kong, L.** (2023). Empirical likelihood and robust regression on varying coefficients model with functional responses, *Scandinavian Journal of Statistics*, invited revision submitted.

[7] Liu, Y.$^-$, Tu, W., Bao, Y., Jiang, B. and **Kong, L.** (2023). Asymmetric estimation for varying-coefficient additive model with functional response in reproducing kernel Hilbert space, *Statistica Sinica*, invited revision submitted.

[8] Shi, E.$^-$, Liu, Y.$^-$, Sun, K.$^-$, Li, L., and **Kong, L.**(2023). An adaptive model checking test for functional linear model, *Bernoulli*, invited revision submitted.

[9] Li, J.$^-$, **Kong, L.**, Jiang, B. and Tu, W. (2022). High-dimensional outlier detection and variable selection via adaptive weighted mean regression, *Statistica Sinica*, invited revision submitted.

[10] Zhou, X., Ding, S., Wang, J., Liu, R., **Kong, L.**, and Huang, C. (2022). Density-on-scalar Single-index Quantile Regression Model, *Technometrics*, invited revision submitted.

[11] Yu, D., Pietrosanu, M., Tu, W., Mizera, I., Jiang, B., **Kong, L.** (2023). Functional Linear Partial Quantile Regression with Guaranteed Convergence for Neuroimaging Data Analysis, *Statistics in Bioscience*, accepted.

[12] Guo, W. $^-$, Zhang, X.$^-$, Jiang, B., **Kong, L.**, and Hu, Y. (2022). Wavelet-based Bayesian approximate kernel method for high-dimensional data analysis, *Computational Statistics*, accepted.

[13] Li, M., Kong, L, Pan, B. and **Kong, L.** (2023). Algorithmic generalization ability of PALM for double sparse regularized regression, *Applied Intelligence*, accepted.

[14] Wang, Y.$^-$, Jiang, B., **Kong, L.**, and Zhang, Z. (2023). M-estimation on varying coefficient model with functional response in reproducing kernel Hilbert space, *Bernoulli*, accepted.

[15] Xie, H.$^-$, Pietrosanu, M.$^-$, Liu, Y.$^-$, Tu, W., Jiang, B., and **Kong, L.** (2023). Differentially Private Regularized Stochastic Convex Optimization with Heavy-Tailed Data, *Statistica Sinica*, accepted.

[16] Zhang, N., Liu, P.$^-$, **Kong, L.**, Jiang, B., and Huang, J-Z. (2023). Functional Linear Quantile Regression on a Two-dimensional Domain, *Bernoulli*, accepted.

[17] Benny, C., Pietrosanu, M. $^-$, Lowe, S., Yamamoto, S., **Kong, L.**, McDonald, S., and Paboya, R. (2023). An investigation into the relationship between community engagement and maternal mental health in Calgary, Alberta using the All our Families Cohort, *Social Psychiatry and Psychiatric Epidemiology*, accepted.

[18] Yan, X., Xie, J., Tu, W., Jiang, B.,and **Kong, L.**. (2023). Scalable inference for individual treatment effect, *Statistics and its Interface*, accepted.

[19] Xie, J.$^-$, Ding, X., Jiang, B., Yan, X.*, and **Kong, L.***, (2023). High dimensional model averaging for quantile regression, *Canadian Journal of Statistics*, accepted.

[20] Zhou, X., Kong, D., Kashlak, A., **Kong, L.***, Karunamuni, and Zhu, H. (2023). Functional Response Quantile Regression Model, *Statistica Sinica*, Vol. 33, 2643-2667.

[21] Sang, P., Kashlak, A., and **Kong, L.***, (2023). A reproducing kernel Hilbert space framework for functional classification, *Journal of Computational and Graphical Statistics*, 32:3, 1000-1008.

[22] Xie, H.$^-$ and **Kong, L.***, (2023). Gaussian copula function-on-scalar regression in reproducing kernel Hilbert space, *Journal of Multivariate Analysis*, 198, 105226.

[23] Pietrosanu, M.$^-$, Shu, H.$^-$, Jiang, B., **Kong, L.***, Heo, G. He, Q., Gilmore, J. and Zhu, H. (2023). Estimation for the bivariate quantile varying coefficient model with application to diffusion tensor imaging data analysis, *Biostatistics*, Vol. 24, No. 2, 465-48.

[24] Mosquera, L., Sharma, V., Carvalho, C., Hamilton, B., Palfrey, D., **Kong, L.**, Jiang, B., Eurich, D. and and Emam, K. (2023). A Method for Generating Synthetic Longitudinal Health Data, *BMC Medical Research Methodology*, 23:67.

[25] Mohammadzadeh, N., Zhang, N., Branton, W., Ouafa Zghidi-Abouzid, O., Cohen, E., Gelman, B., Estaquier, J. **Kong, L.** and Power, P. (2023). HIV restriction factor profile in the brain is associated with clinical status and viral burden, *Viruses*, Vol. 12, No. 2, 316.

[26] Tang, Q., Tu, W.$^-$, and **Kong, L.** (2023). Estimation for partial functional partially linear additive model, *Computational Statistics & Data Analysis*, Vol. 177, 107584.

[27] Tu, W., Jiang, B. **Kong, L.*** (2022). Comment on "Measuring Housing Vitality from Multi-source Big Data and Machine Learning", *Journal of the American Statistical Association*, Vol. 117, No. 539, 1060-1062.

[28] Jiang, Y., Mosquera, L., Jiang, B., **Kong, L.**, and Emam, K. (2022). Measuring Re-

identification Risk Using A Synthetic Estimator,*PLoS ONE* , 17 (6), e0269097.

[29] Tu, W.$^{-}$, Fu, F.$^{-}$, Cobzas, D., **Kong, L.**, Jiang, B. and Huang, C. (2022). Low-Rank plus Sparse Decomposition of fMRI Data with Application to Alzheimer's Disease. *Frontiers in Neurosciences*, Vol. 16, 826316.

[30] Zhang, Z., Wang, X., **Kong, L.**, and Zhu, H. (2022). High-Dimensional Spatial Quantile Function-on-Scalar Regression, *Journal of the American Statistical Association*, Vol. 117, No. 539, 1563-1570.

[31] Hu, S., Alshehabi J., Hughes, K., Denier, N., Konnikov, A., Ding, L., Xie, J., Hu, Y., Tarafdar, M., Jiang, B., **Kong, L.**, and Dai, H. (2022), Balancing Gender Bias in Job Advertisements with Text-Level Bias Mitigation, *Frontiers in Big Data*, Vol 5. 805713.

[32] Pietrosanu, M.$^{-}$, **Kong, L.**, Yuan, Y., Bell, R., Letourneau, N. and Jiang, B. (2022). Associations between Longitudinal Gestational Weight Gain and Scalar Infant Birth Weight: A Bayesian Joint Modeling Approach. *Entropy*, 24, 232.

[33] Liu, M.$^{-}$, Pietrosanu, M.$^{-}$, Liu, P., Jiang, B., Zhou, X.*, and **Kong, L.*** (2022). Reproducing Kernel-based partial functional expectile regression, *Canadian Journal of Statistics*, 50(1), 241-266.

[34] Agarwal, G., Tu, W.$^{-}$, Sun, Y. and **Kong, L.** (2022). Flexible Quantile Contours for Multivariate Functional Data: Beyond Convexity, *Computational Statistics & Data Analysis*, Vol. 168, 107400.

[35] Ishaque, A., Xie, H.$^{-}$, Danyluk, H., Wheatley, B., Broad, R., Kong, L., and Sankar, T. (2022). Comparison of prognostic scoring systems to predict durable pain relief after microvascular decompression for trigeminal neuralgia, *World Neurosurgery*, Vol. 157, e432-e440.

[36] Liu, B.$^{-}$, Zhang, H., **Kong, L.** and Niu, D. (2022). Factorizing Historical User Actions for Next-Day Purchase Prediction, *ACM Transactions on the Web (TWEB),* 16 (1), 1.

[37] Tu, W.$^{-}$, Johnson, E., Fujiwara, E., Gill, J., **Kong, L.**, and Power, C. (2021). Predictive variables for peripheral neuropathy prevalence and phenotypes in HIV/AIDS: Risk variables uncovered by machine learning, *AIDS*, 35 (11), 1785-1793.

[38] Pietrosanu, M^{-}., Zhang, L., Seres, P., Elkady, A., Wilman, A. **Kong, L.***, and Cobzas, D*. (2021). Stable anatomy detection in multimodal imaging through sparse group regularization: a comparative study of iron accumulation in the aging brain. *Frontiers in Human Neuroscience*, 15: 76.

[39] Lai, T. , Zhang Z., Wang, Y. $^{-}$ and **Kong, L.** (2021). Testing independence of functional variables by angle covariance. *Journal of Multivariate Analysis*, Vol. 182, 104711.

[40] Pietrosanu, M.$^{-}$, Gao, J.$^{-}$, **Kong, L.***, Jiang, B., and Niu, D. (2021). Advanced Algorithms for Penalized Quantile and Composite Quantile Regression, *Computational Statistics*, 36 (9): 333-346.

[41] Selvaratnam, S.$^{-}$, **Kong, L.** and Wiens, D. (2021). Model-robust designs for nonlinear quantile regression, *Statistical Methods in Medical Research,* 30 (1): 221-232.

[42] Tang, Q. **Kong, L.**, Karunamuni, R. and Ruppert, D. (2021). Partial Functional Partially Linear Single Index Model, *Statistica Sinica,* 31 (1), 107-133.

[43] Kashlak, A. and **Kong, L.** (2021). Nonasymptotic estimation and support recovery for high dimensional sparse covariance matrices, *STAT,* 10 (1): e316.

[44] Su, T.$^{-}$, Wang, Y.$^{-}$, Liu, Y.$^{-}$, Branton, W.G., Asahchop, E., Power, C., Jiang, B., **Kong, L.***, and Tang, N. * (2020). Sparse Multicategory Generalized Distance Weighted Discrimination in Ultra-High Dimensions. *Entropy.* 22 (11), 1257.

[45] Liu, B.$^{-}$, Niu, D., Han, F., **Kong, L.**, Lai, K., and Xu, Y. (2020). Story Forest: Extracting Events and Telling Stories from Breaking News, *ACM Transactions on Knowledge Discovery from Data (TKDD)*, 14 (3), Article 31.

[46] Tu, W.$^{-}$, Chen, P., Koenig, N., Gomez, D., Fujiwara, E., Gill, J., **Kong, L.***, and Power, C.* (2020). Machine learning models reveal neurocognitive impairment type and prevalence are associated with distinct variables in HIV/AIDS, *Journal of NeuroVirology*, Vol. 26, No. 1, 41-51.

[47] Subhan, F., Shulman, L.$^{-}$, Yuan, Y., McCargar, L., **Kong, L.**, and Bell, R. (2019) Fat Mass Distribution and Accretion During Pregnancy and Early Postpartum - A Prospec-

tive Study of Albertan Women, *BMJ Open*, Vol. 9, No. 7, e026908.

[48] Karunamuni, R., **Kong, L.**, and Tu, W.$^{-}$ (2019). Efficient Robust Doubly Adaptive Regularized Regression, *Statistical Methods in Medical Research,* Vol. 28, No. 7, 2210-2226.

[49] Liu, B.$^{-}$, Mavrin, B.$^{-}$, Niu, D. and **Kong, L.** (2019). Spatial Data Reconstruction via ADMM and Spatial Spline Regression, *Applied Sciences*, Vol. 9, No. 9, 1733.

[50] Tu, W.$^{-}$, **Kong, L.**, Karunamuni, R., Butcher, K., Zheng, L.-, and McCourt, R. (2019). Non-local Spatial Clustering in Automated Brain Hematoma and Edema Segmentation, *Applied Stochastic Models in Business and Industry*, Vol. 35, 321-329.

[51] Yu, D.$^{+-}$, Zhang, L.$^{+}$, Jiang, B., Mizera, I. and **Kong, L.*** (2019). Sparse Wavelet Estimation in Quantile Regression with Multiple Functional Predictors, *Computational Statistics & Data Analysis*, Vol. 136, 12-29.

[52] Han, P., **Kong, L.***, Zhao, J., and Zhou, X. (2019). A General Framework for Quantile Estimation with Incomplete Data, *Journal of the Royal Statistical Society: Series B*, Vol. 81, P. 2, 305-333.

[53] Wang, Y.$^{-}$, **Kong, L.***, Jiang, B., Yu, S.$^{-}$, Zhang, L., Zhou, X., and Heo, G. (2019). Wavelet-based Lasso in Functional Linear Quantile Regression, *Journal of Statistical Computation and Simulation*, Vol. 89, No. 6, 1111-11130.

[54] Nathoo, F., **Kong, L.**, and Zhu, H. (2019). A Review of Statistical Methods in Imaging Genetics, *Canadian Journal of Statistics*, Vol. 47, No. 1, 108-131.

[55] Asahchop, E., Branton, W., Krishnan, A., Chen, P., Yang, D.$^{-}$, **Kong, L.**, Zochodne, D., Brew, B., Gill, J., and Power, C. (2018). microRNA-455-3p predicts HIV-associated symptomatic distal sensory polyneuropathy and suppresses NGF expression in human neurons, *JCI insight*, 3(23): e122450.

[56] Zhang, L., Cobzas, D., Wilman, A., and **Kong, L.** (2018). Significant Anatomy Detection through Sparse Classification: A Comparative Study, *IEEE Transactions on Medical Imaging*, Vol. 37, No. 1, 128-137.

[57] Che, M.$^{-}$, **Kong, L.**, Bell, R. and Yuan, Y. (2017). Trajectory Modeling of Gestational Weight: a Functional Principal Component Analysis Approach, *PLoS ONE* , Vol. 12, No. 10, e0186761.

[58] Tang, Q. and **Kong, L.** (2017). Quantile regression in functional linear semiparametric model, *Statistics*, Vol. 51, No. 6, 1342-1358.

[59] Yu, D.$^{-}$, **Kong, L.*** and Mizera, I. (2016). Partial Functional Linear Quantile Regression for Neuroimaging Data Analysis, *Neurocomputing*, Vol. 195, 74-87.

[60] He, Q.,$^{+}$ **Kong, L.**$^{+}$, Wang, Y., Wang, S., Cha, T. and Holland, E. (2016). Regularized quantile regression under heterogeneous sparsity with application to quantitative genetic traits, *Computational Statistics & Data Analysis*, Vol. 95, 222-239.

[61] **Kong, L.** and Wiens, D. (2015). Model-Robust Designs for Quantile Regression, *Journal of the American Statistical Association*, Vol. 110, No. 509, 233-245.

[62] Zhu, H., Fan, J. and **Kong, L.** (2014). Spatially Varying Coefficient Model for Neuroimaging Data with Jump Discontinuities. *Journal of the American Statistical Association*, Vol. 109, No. 507, 1084-1098.

[63] Ford, A., An, H., **Kong, L.**, Zhu, H., Vo, K., Powers, W., and Lin, W. (2014). Clinically-relevant reperfusion in acute ischemic stroke: MTT performs better than Tmax and TTP, *Translational Stroke Research*, Vol. 5, 415-421.

[64] Calder on-Garcidueñas, L., Mora-Tiscareño, A., Torres-Jard on, R., Peaï-Cruz, B., Palacios-L opez, C., Zhu, H., **Kong, L.**, Mendoza-Mendoza, N., Montesinos-Correa, H., Romero, L., Valencia-Salazar, G., Cross, J., Kavanaugh, M., Medina-Cortina, H., Frenk, S. (2013). Exposure to Urban Air Pollution and Bone Health in Clinically Healthy Six-Year-Old Children. *Archives of Industrial Hygiene and Toxicology*, Vol. 64(1): 23-34.

[65] Zhu, H., Li, R. and **Kong, L.** (2012). Multivariate Varying Coefficient Models for Functional Responses, *Annals of Statistics*, Vol. 40, No. 5, 2634-2666.

[66] **Kong, L.** and Mizera, I. (2012). Quantile Tomography: Using Quantiles with Multivariate Data, *Statistica Sinica*, Vol. 22, No. 4. 1589-1610.

[67] Zhu, H., **Kong, L.**, Li, R., Styner, M., Gerig, G., Li, Y., and Gilmore, JH. (2011).

FADTTS: Functional Analysis of Diffusion Tensor Tract Statistics, *Neuroimage*, Vol. 56(3), 1412-1425.

[68] **Kong, L.** and Zuo, Y. (2010). Depth Contours Characterize the Underlying Distribution, *Journal of Multivariate Analysis*, Vol. 101(9), 2222-2226.

[69] **Kong, L.** and Mizera, I. (2010). Discussion of "Multivariate Quantiles and Multiple-Output Regression Quantiles: From L_1 Optimization to Halfspace Depth", *Annals of Statistics*, Vol. 38, No. 2, 685-393.

Peer-Reviewed Proceedings:

[70] Zhao, S., Cui, W., Jiang, B., **Kong, L.,** and Yan, X. (2024). Responsible Bandit Learning via Privacy-Protected Mean-Volatility Utility. *Proceedings of the* 38^{th} *AAAI Conference on Artificial Intelligence 2024* (acceptance rate: 21.3%).

[71] Jiang, Y., Liu, Y.,$^{-}$, Yan, X., Charest, A.-S., **Kong, L.**, and Jiang, B. (2024). Analysis of Differentially Private Synthetic Data: A Measurement Error Approach, *Proceedings of the* 38^{th} *AAAI Conference on Artificial Intelligence 2024* (acceptance rate: 21.3%).

[72] Jiang, Y., Ding, L.$^{-}$, Liu, Y.$^{-}$, Chang, X., **Kong, L.*** and Jiang, B. (2023). Gaussian Differential Privacy on Riemannian Manifolds, *Proceeding of the 37th Conference on Neural Information Processing Systems (NeurIPS 2023)*, (acceptance rate: 26.1%).

[73] Feng, W., Li, X., **Kong, L.**, Jiang, B. and Yan, X. (2023). P-learning for Two-sided Markets, *KDD-23 Workshop on Decision Intelligence and Analytics for Online Marketplaces*.

[74] Sun, K.$^{-}$, Zhao, Y., Jui, S. and **Kong, L.** (2023). Exploring the Training Robustness of Distributional Reinforcement Learning against Noisy State Observations, *European Conference on Machine Learning and Principles and Practice of Knowledge Discovery in Databases (ECML-PKDD 2023)*. (acceptance rate: 24%)

[75] Liu, Y.$^{-}$, Hu, Q.$^{-}$, Ding, L.$^{-}$, Jiang, B. and **Kong, L.** (2023). Online Local Differential Private Quantile Inference via Self-normalization, *2023 Proceedings of the Fortieth International Conference on Machine Learning (ICML 2023)*. (acceptance rate: 21.5%)

[76] Kiechie, J., Slessor, J., Cobzas, D., Pietrosanu., Beaulieu, C., and **Kong, L.** (2023). Explaining anatomical shape variability: Supervised disentangling with a variational graph autoencoder, *IEEE International Symposium on Biomedical Imaging (ISBI 2023)*.

[77] Liu, P., Liu, Y., Zhu, R., **Kong, L.**, Jiang, B., and Niu, D. (2023). Optimal Smooth Approximation for Quantile Matrix Factorization. *SIAM International Conference on Data Mining (SDM 2023)*, 595-603, (acceptance rate: 27.4%).

[78] Cui, W., Ji, X., **Kong, L.**, and Yan, X. (2023). Opposite Online Learning via Sequentially Integrated Stochastic Gradient Descent Estimators. *The 2023 AAAI Conference on Artificial Intelligence (AAAI 2023)* (acceptance rate: 19.7%).

[79] Liu, M.$^{-}$, Ding, L.$^{-}$, Yu, D., Liu, W., **Kong, L.*** and Jiang, B. (2022). Conformalized Fairness via Quantile Regression, *Proceeding of the 36th Conference on Neural Information Processing Systems (NeurIPS 2022)*, (acceptance rate: 25.6%).

[80] Liu, Y.$^{-}$, Sun, K.$^{-}$, Jiang, B., and **Kong, L.*** (2022). Identification, Amplification, and Measurement: A bridge to Gaussian Differential Privacy, *Proceeding of the 36th Conference on Neural Information Processing Systems (NeurIPS 2022)*, (acceptance rate: 25.6%).

[81] Yang, J., Guo, W., Liu, B., Yu, Y., Wang, C., **Kong, L.**, Niu, D., Wen, Z. (2022). TAG: Toward Accurate Social Media Content Tagging with a Concept Graph. *The 28th ACM SIGKDD Conference on Knowledge Discovery and Data Mining (KDD 2022)* (acceptance rate: 15%).

[82] Lu, D., Chen, R., Sui, S., Han, Q., **Kong, L.**, and Wang, Y. (2022). MTGnet: Multi-Task Spatiotemporal Graph Convolutional Networks for Air Quality Prediction. *2022 International Joint Conference on Neural Networks (IJCNN 2022)*.

[83] Wang, Y.$^{-}$, Pan, B.$^{-}$, Tu, W., Liu, P., Jiang, B., Gao, C., Lu, W. Jiu, S. and **Kong, L.*** (2022). Sample Average Approximation for Dependent Data: Performance Guarantee and Tractability. *The 2022 AAAI Conference on Artificial Intelligence (AAAI 2022)* (acceptance rate: 15%).

[84] Ding, L.$^{-}$, Yu, D., Xie, J.$^{-}$, Guo, W.$^{-}$, Hu, S., Liu, M.$^{-}$, **Kong, L.***, Dai, H., Bao,

Y., and Jiang, B. (2022). Gender Debiasing Word Embedding with Oracle Semantic Information Retained Using Causal Inference. *The 2022 AAAI Conference on Artificial Intelligence (AAAI 2022)* (acceptance rate: 15%).

[85] Wang, Y.$^{+-}$, Sun, K.$^{+-}$, Liu, Y.$^{-}$, Zhao, Y.$^{-}$, Pan, B.$^{-}$, Jui, S., Jiang, B., and **Kong, L.*** (2021). Damped Anderson Mixing for Deep Reinforcement Learning: Acceleration, Convergence, and Stabilization, *Proceeding of the 35th Conference on Neural Information Processing Systems (NeurIPS 2021)*, (acceptance rate: 26%).

[86] Mills, K., Han, F., Niu, D., Lian S., Jui, S., Salameh, M., Rezaei, S. and **Kong, L.** (2021). L^2-NAS: Learning to Optimize Neural Architectures via Continuous-Action Reinforcement Learning, *Proceedings of the 30th ACM International Conference on Information and Knowledge Management (CIKM 2021)*. (acceptance rate: 21.7%)

[87] Tu, W.$^{-}$, Liu, P.$^{-}$, Liu, Y.$^{-}$, **Kong, L.***, Li, G., Jiang, B., Yao, H., and Jui, S. (2021). Nonsmooth Low-rank Matrix Recovery: Methodology, Theory, and Algorithm, *Proceedings of the Future Technologies Conference (FTC 2021)*, 848-862.

[88] Hu, Y., Liu, P.$^{-}$, Ge, K. **Kong, L.**, Jiang, B., and Niu, D. (2020). Learning Privately over Distributed Features: An ADMM Sharing Approach. *2020 34th Conference on Neural Information Processing Systems, Workshop on Scalability, Privacy, and Security in Federated Learning (NeurIPS-SpicyFL 2020)*.

[89] Liu, P.$^{+-}$, Tu, W.$^{+-}$, Zhao, J., Liu, Y., **Kong, L.***, Li, G., Jiang, B., Tian, G., and Yao, H. (2019). M-estimation in Low-rank Matrix Factorization: a General Framework. *2019 IEEE 19th International Conference on Data Mining (ICDM 2019)*, (acceptance rate: 9.08%)

[90] Tu, W.$^{+-}$, Yang, D^{+-}., Che, M.$^{-}$, Shi, Q.$^{-}$, Li, G., Tian, G., and **Kong, L.***. (2019). Ensemble-based Ultrahigh-dimensional Variable Screening, *Proceedings of the 28th International Joint Conference on Artificial Intelligence (IJCAI 2019)*. (acceptance rate: 17.9%)

[91] Borislav, M.$^{-}$, Zhang, S., Yao, H., **Kong, L.**, Wu, K., and Yu, Y. (2019). Distribution Reinforcement Learning for Efficient Exploration, *Proceedings of the Thirty-sixth International Conference on Machine Learning (ICML 2019)*. (acceptance rate: 22.6%)

[92] Borislav, M.$^{-}$, Zhang, S., Yao, H., and **Kong, L.** (2019). Exploration in the face of Parametric and Intrinsic Uncertainties, *Proceedings of the International Conference on Autonomous Agents and Multiagent Systems (AAMAS 2019)*.

[93] Zhang, S., Borislav, M.$^{-}$ and **Kong, L.**, Liu, B. and Yao, H. (2019). QUOTA: The Quantile Option Architecture for Reinforcement Learning, *Proceedings of the Thirty-First AAAI Conference on Artificial Intelligence (AAAI 2019)*. (acceptance rate: 16.2%)

[94] Liu, B.$^{-}$, Mavrin, B.$^{-}$, Niu, D. and **Kong, L.** (2017). Recover Fine-Grained Spatial Data from Coarse Aggregation, *2017 IEEE 17th International Conference on Data Mining (ICDM 2017)*. (acceptance rate: 19.9%)

[95] Liu, B.$^{-}$, Niu, D., Lai, K., **Kong, L.**, and Xu, Y. (2017). Growing Story Forest Online from Massive Breaking News, *Proceedings of the 26th ACM International Conference on Information and Knowledge Management (CIKM 2017)*. (acceptance rate: 20.0%)

[96] Zhang, L., Cobzas, D., Wilman, A., and **Kong, L.** (2017). An unbiased penalty for sparse classification with application to neuroimaging data, *Medical Image Computing and Computer-Assisted Intervention (MICCAI 2017)*, Lecture Notes in Computer Science, 2017, Springer Berlin/Heidelberg, Vol. 10435, 55-63. (acceptance rate: 32.2%)

[97] Zhu, R., Niu, D. and **Kong, L.**, and Li, Z. (2017). Expectile Matrix Factorization for Extreme Data Analysis, *Proceedings of the Thirty-First AAAI Conference on Artificial Intelligence (AAAI 2017)*, 259-265. (acceptance rate: 24.6%)

[98] Liu, B.$^{+-}$, Mavrin, B.$^{+-}$, Niu, D. and **Kong, L.** (2016). House Price Modeling over Heterogeneous Regions with Hierarchical Spatial Functional Analysis, *2016 IEEE 16th International Conference on Data Mining (ICDM 2016)*, 2047-2052. (acceptance rate: 19.6%)

[99] Luo, X., Zhu, L., **Kong, L.**, and Zhu, H. (2015). Functional Nonlinear Mixed Effects Models for Longitudinal Image Data, Information Processing in Medical Imaging (IPMI 2015), *Lecture Notes in Computer Science*, Springer Berlin/Heidelberg, Vol. 9123, 794-

805. (acceptance rate: 32.3%)

[100] Zhu, H., Styner, M., Li, Y., **Kong, L.**, Shi, W., Lin, W., Coe, C. and Gilmore, JH. (2010). Multivariate Varying Coefficient Models for DTI Tract Statistics, Medical Image Computing and Computer-Assisted Intervention (MICCAI 2010), *Lecture Notes in Computer Science*, 2010, Springer Berlin/Heidelberg, Vol. 6361, 690-397. (acceptance rate: 31.9%)

Peer-Reviewed Book Chapters:

[101] Konnikov, A., Rets, I., Hughes, K., Alshehabi Al-Ani, J., Denier, N., Ding, L., Hu, S., Hu, Y., Jiang, B., **Kong, L.**, Tarafdar, M. and Yu, D. (2022). Responsible AI for labour market equality (BIAS). In: How to Manage International Multidisciplinary Research Projects. Edward Elgar, Cheltenham. 75-87.

[102] Wang, Y.$^{-}$, Lai, T., Jiang, B., **Kong, L.***, and Zhang Z. (2022). Functional linear regression for partially observed functional data, *Advances and Innovations in Statistics and Data Science*, Editors: He, W., Wang, L., Chen, J. and Lin, C., Springer, 137-158.

Non Peer-Reviewed Proceedings:

[103] **Kong, L.** and Wiens, D. (2015), Nonlinear Quantile Regression Design, in *Joint Statistical Meeting Proceedings*, 3602-3609.

Patent:

[104] Jiang, Y., Jiang, B., **Kong, L.** and Emam K El. (2022), Re-identification risk assessment using a synthetic estimator, *US Patent App.*, 17/400,484.

Technical Reports:

[105] Squires, J., **Kong, L.**, Brooker, S.Mitchell, A. Sales, A. and Estabrooks, C. (2009). Examining the Role of Context in Alzheimer Care Centers: A Pilot Study Technical Report. (Report No.0804-TR). Edmonton, AB, Faculty of Nursing, University of Alberta. (ISBN:978-1-55195-237-6).

[106] Estabrooks, C., Squires, J., Adachi, A., **Kong, L.** and Norton, P. (2008). Utilization of Health Research in Acute Care Settings in Alberta Technical Report. (Report No. 08-01-TR). Edmonton, AB, Faculty of Nursing, University of Alberta. (ISBN: 978-1-55195-231-4).

[107] Hutchinson, A., Adachi, A., **Kong, L.**, Estabrooks, C., and Steves, B. (2008). Context and Research Use in the Care of Children: A Pilot Study Project 2 CIHR Team in Children's Pain Technical Report. (Report No. 08-03-TR). Edmonton, AB: Faculty of Nursing, University of Alberta. (ISBN: 978-1-55195-236-9).

Ph.D. Thesis:

[108] **Kong, L.** (2009), On multivariate quantile regression: directional approach and application with growth charts, *Ph.D. thesis, Advisor: Ivan Mizera*, University of Alberta.

Invited Panels and Roundtables

[1] Panel Discussant, Securing Team-Based And Industrial Grants, Ottawa ON, Statistical Society of Canada (SSC) New Investigator Committee. 05/2023

[2] Roundtable Discussant, Technology Risk Consultation - Advanced Analytics Roundtable (Virtual), Office of the Superintendent of Financial Institutions Canada (OSFI). 11/2020

[3] Panel Discussant, The transformative potential of international, interdisciplinary research for Responsible AI: a Canada - UK collaboration (Virtual), Canadian Science Policy Conference (CSPC). 11/2020

[4] Panel Discussant, Tenure and Promotion: Insightful Tips from Applicants and Reviewers, Calgary, AB, Statistical Society of Canada (SSC) New Investigator Committee. 05/2019

Invited Presentations

[1] Exploring the Training Robustness of Distributional Reinforcement Learning against Noisy State Observations, the Conference of Statistical Optimization and learning, Beijing, China. 12/2023

[2] Exploring the Training Robustness of Distributional Reinforcement Learning against Noisy State Observations, Chinese Academic Sciences, Beijing, China. 12/2023

[3] Exploring the Training Robustness of Distributional Reinforcement Learning against Noisy State Observations, School of Statistics, Shandong University of Finance and Economics, Jinan, China. 11/2023
[4] Estimation for Bivariate Quantile Varying Coefficient Model, Department of Statistics and Data Science, BNU-HKBU United International College, Zhuhai, China. 11/2023
[5] Regularized tensor quantile regression with applications to neuroimaging data analysis, JSM, Toronto, ON 08/2023
[6] Identification, Amplification and Measurement: A bridge to Gaussian Differential Privacy, Shanghai University of Finance and Economics, Shanghai, China. 07/2023
[7] Word Embeddings via Causal Inference: Gender Bias Reducing and Semantic Information Preserving, East China Normal University, Shanghai, China. 07/2023
[8] Identification, Amplification and Measurement: A bridge to Gaussian Differential Privacy, Shandong University, Jinan, China. 07/2023
[9] Word Embeddings via Causal Inference: Gender Bias Reducing and Semantic Information Preserving, Qufu Normal University, Qufu, China. 07/2023
[10] Identification, Amplification and Measurement: A bridge to Gaussian Differential Privacy, Nanjing Audit University, Nanjing, China. 07/2023
[11] Word Embeddings via Causal Inference: Gender Bias Reducing and Semantic Information Preserving, Nanjing University, Nanjing, China. 07/2023
[12] Identification, Amplification and Measurement: A bridge to Gaussian Differential Privacy, Joint Conference on Statistics and Data Science in China, Beijing, China. 07/2023
[13] Damped Anderson Mixing for Deep Reinforcement Learning: Acceleration, Convergence, and Stabilization, ICSA China Conference, Chengdu, China. 07/2023
[14] Identification, Amplification and Measurement: A bridge to Gaussian Differential Privacy, North America Machine Learning, Optimization and Statistics Symposium, Vancouver, BC, 06/2023
[15] Gaussian Copula Function-on-Scalar Regression in Reproducing Kernel Hilbert Space, ICSA Symposium, University of Michigan, MI. 06/2023
[16] Word Embeddings via Causal Inference: Gender Bias Reducing and Semantic Information Preserving, Faculty of Science, Beijing University of Technology, 06/2023
[17] Regularized tensor quantile regression with applications to neuroimaging data analysis, SSC, Carleton University, Ottawa ON, 05/2023
[18] Damped Anderson Mixing for Deep Reinforcement Learning: Acceleration, Convergence, and Stabilization, ICODOE, University of Memphis, TN. 05/2023
[19] Identification, Amplification and Measurement: A bridge to Gaussian Differential Privacy, Department of Statistics, Florida State University 03/2023
[20] Statistical Challenges and Opportunities in Population Neuroimaging, Department of Mathematical and Statistical Sciences, University of Alberta, AB. 03/2023
[21] Statistics and Optimization in Deep Reinforcement Learning, International Conference on Statistical Optimization and Learning, Beijing, China. 12/2022
[22] Regularized tensor quantile regression with applications to neuroimaging data analysis, Southwestern University of Finance and Economics, China 12/2022
[23] Conformalized Fairness via Quantile Regression, AMII AI seminar, Alberta Machine Intelligence Institute, AB 12/2022
[24] Identification, Amplification and Measurement: A bridge to Gaussian Differential Privacy, 2022 International Symposium on Modern Data Science Application, Practice, and Theory, Yale University 10/2022
[25] Sample Averaging Approximation for Conditional Stochastic Optimization with Non-IID Data and Its Application in Federated Learning, Canada AI Federated Learning Workshop, Toronto, ON 10/2022
[26] Conformalized Fairness via Quantile Regression, STW AI, Quebec City, QC 09/2022
[27] Statistical Challenges and Opportunities in Population Neuroimaging (Virtual), Beijing Jiaotong University, China. 08/2022
[28] Gaussian Copula Function-on-Scalar Regression in Reproducing Kernel Hilbert Space, JSM, Washinton, DC. 08/2022

[29] Statistical Learning and Optimization in Trustworthy Data-Driven Decision Making (Virtual), Beijing Jiaotong University, China. 07/2022
[30] Gaussian Copula Function-on-Scalar Regression in Reproducing Kernel Hilbert Space, ICSA Canada Chapter Symposium, Banff, AB. 07/2022
[31] Gaussian Copula Function-on-Scalar Regression in Reproducing Kernel Hilbert Space (Virtual), WNAR, 06/2022
[32] Gaussian Copula Function-on-Scalar Regression in Reproducing Kernel Hilbert Space, Ryukoku University, Kyoto, Japan 06/2022
[33] Statistical Learning and Optimization in Trustworthy Data-Driven Decision Making, Noah's Ark lab, Montreal, QC 05/2022
[34] Damped Anderson Mixing for Deep Reinforcement Learning: Acceleration, Convergence, and Stabilization (Virtual), SSC, Simon Fraser University, BC. 05/2022
[35] Statistical Challenges and Opportunities in Population Neuroimaging (Virtual), School of Statistics, Kansas State University, Kansas. 04/2022
[36] Exploration and Optimization in Reinforcement Learning (Virtual), School of Statistics and Data Science, Naikai University, China. 04/2022
[37] Statistics and Optimization in Reinforcement Learning (Virtual), School of Statistics, Remin University, China. 03/2022
[38] Statistics and Optimization in Reinforcement Learning (Virtual), Department of Statistics, University of Toronto, ON. 03/2022
[39] Statistics and Optimization in Reinforcement Learning (Virtual), Department of Statistics, University of Georgia, GA. 02/2022
[40] Estimation for Bivariate Quantile Varying Coefficient Model (Virtual), Division of Biostatistics, University of Toronto, ON. 02/2022
[41] Sample Average Approximation for Stochastic Optimization with Dependent Data (Virtual), Beijing Jiaotong University, China. 01/2022
[42] Damped Anderson Mixing for Deep Reinforcement Learning: Acceleration, Convergence, and Stabilization (Virtual), CM Statistics, London, UK. 12/2021
[43] Damped Anderson Mixing for Deep Reinforcement Learning: Acceleration, Convergence, and Stabilization (Virtual), Shandong University, China. 12/2021
[44] Estimation for Bivariate Quantile Varying Coefficient Model, Department of Statistics, University of Kent, UK. 11/2021
[45] Damped Anderson Mixing for Deep Reinforcement Learning and Applications (Virtual), Applied Reinforcement Learning Seminar, USA. 10/2021
[46] High-Dimensional Spatial Quantile Function-on-Scalar Regression (Virtual), Fred Hutchinson Cancer Research Center, USA. 10/2021
[47] Exploring the Robustness of Distributional Reinforcement Learning against Noisy State Observations (Virtual), Statistical learning methods in modern AI, Xi'an, Shanxi 06/2021
[48] Functional Response Quantile Regression Model (Virtual), WNAR, 06/2021
[49] Double Adaptive Spatial Quantile Regression Models for Neuroimaging Data (Virtual), SSC Annual Meeting 06/2021
[50] Imaging Genetics: From Genes to Brain Imaging (Virtual), the First CANSSI-NISS Health Data Science Workshop 05/2021
[51] Significant Anatomy Detection Through Sparse Classification: A Comparative Study (Virtual), Jiangxi University of Finance and Economics, Nanchang, Jiangxi 04/2021
[52] High-Dimensional Spatial Quantile Function-on-Scalar Regression (Virtual), Department of Biostatistics, Emory University, Atlanta, GA 04/2021
[53] High-Dimensional Spatial Quantile Function-on-Scalar Regression (Virtual), Department of Mathematics, Nanjing University, Nanjing, China. 03/2021
[54] M-estimation in Low-rank Matrix Factorization: a General Framework (Virtual), Department of Statistics, Iowa State University, Iowa. 11/2020
[55] A General Framework for Quantile Estimation with Incomplete Data (Virtual), School of Public Health, Yale University, New Havens, Connecticut. 10/2020
[56] Significant Anatomy Detection Through Sparse Classification: A Comparative Study (Virtual), Department of Mathematics, Nanjing University, Nanjing, China. 08/2020

[57] M-estimation in Low-rank Matrix Factorization: a General Framework (Virtual), School of big data, Nanjing Audit University, Nanjing, China. 07/2020
[58] Distributional Reinforcement Learning: Yesterday, Today, and Tomorrow (Virtual), School of Statistics and Management, Shanghai University of Finance and Economics, Shanghai, China. 06/2020
[59] High-Dimensional Spatial Quantile Function-on-Scalar Regression, ICSA International Conference, Hangzhou, Zhejiang, China 12/2019
[60] Optimal Smooth Approximation for Quantile Matrix Factorization, School of Mathematics, Beijing Institute of Technology, Beijing. 12/2019
[61] A General Framework for Quantile Estimation with Incomplete Data, Department of Statistics and Actuarial Science, University of Waterloo, Waterloo, Ontario. 11/2019
[62] High-Dimensional Spatial Quantile Function-on-Scalar Regression, ICSA Canada Chapter Symposium, Queen's University, Kingston, ON. 08/2019
[63] Optimal Estimation in Quantile Functional Regression with Application in Imaging Genetics, JSM, Denver CO. 07/2019
[64] Distributional Reinforcement Learning: Yesterday, Today, and Tomorrow, Didi AI Lab, Beijing. 07/2019
[65] Optimal Smooth Approximation for Quantile Matrix Factorization, School of Engineering, Peking University, Beijing. 07/2019
[66] High-Dimensional Spatial Quantile Function-on-Scalar Regression, School of Statistics, Beijing Normal University, Beijing. 07/2019
[67] Optimal Smooth Approximation for Quantile Matrix Factorization, ICSA China Conference, Nankai University, Tianjin. 07/2019
[68] A General Framework for Quantile Estimation with Incomplete Data, Department of Statistics & Actuarial Science, University of Hong Kong, Hong Kong. 06/2019
[69] A General Framework for Quantile Estimation with Incomplete Data, Department of Statistics, HDDA-IX, Uppsala University, Sweden. 06/2019
[70] A General Framework for Quantile Estimation with Incomplete Data, Department of Statistics, University of Connecticut, Storrs, Connecticut. 03/2019
[71] A General Framework for Quantile Estimation with Incomplete Data, Department of Mathematics, Hong Kong Baptist University, Hong Kong. 12/2018
[72] Optimal Smooth Approximation for Quantile Matrix Factorization, Big Data, and Information Analytics, Huston, TX. 12/2018
[73] A Review of Statistical Methods in Imaging Genetics, International Conference of the ERCIM WG on Computing and Statistics, Pisa, Italy. 12/2018
[74] A General Framework for Quantile Estimation with Incomplete Data, Department of Mathematics, MacEwan University, Edmonton, AB. 11/2018
[75] Optimal Smooth Approximation for Quantile Matrix Factorization, Department of Statistics, University of Manitoba, Winnipeg, MA. 11/2018
[76] A Review of Statistical Methods in Imaging Genetics, Department of Biochemistry and Medical Genetics, University of Manitoba, Winnipeg, MA. 11/2018
[77] Empirical likelihood and robust regression in diffusion tensor imaging data analysis, ICSA China Conference, Qingdao, Shandong, China.. 07/2018
[78] A Review of Statistical Methods in Imaging Genetics, WNAR, Edmonton, AB. 06/2018
[79] Empirical likelihood and robust regression in diffusion tensor imaging data analysis, SSC Annual Meeting, Montreal, QC. 06/2018
[80] Empirical likelihood and robust regression in diffusion tensor imaging data analysis, HDDA-VIII, Marrakech, Morocco. 04/2018
[81] Varying Coefficient Model for Functional Responses: Beyond Least Squares, Department of Mathematics and Statistics, McGill University, Montreal, QC. 04/2018
[82] Varying Coefficient Model for Functional Responses: Beyond Least Squares, Department of Statistics, University of Toronto, Toronto, ON. 04/2018
[83] Imaging Genetics: From Genes to Brain Imaging, AEN-PIMS Bioinformatics & Computational Biology Workshop, Calgary, AB. 11/2017
[84] Spatial quantile regression for functional responses in Neuroimaging data analysis,

KAUST, Saudi Arabia. 11/2017

[85] Functional and Spatial Varying Coefficient Models for DTI Data Analysis, ICSA Canada Chapter Symposium, Vancouver, BC. 08/2017

[86] Estimation in Functional Linear Quantile Regression, Department of Statistics, University of British Columbia, Vancouver, BC. 08/2017

[87] Spatial Quantile Regression Models for High-Dimensional Imaging Data, SSC Annual Meeting, University of Manitoba, Winnipeg, MA. 06/2017

[88] Estimation for Bivariate Quantile Varying Coefficient Model, Department of Mathematics and Statistics, University of Calgary, Calgary, AB. 05/2017

[89] Functional and Spatial Varying Coefficient Models for DTI Data Analysis, Department of Math and Stat, University of Alberta, Edmonton, AB. 03/2017

[90] Estimation for Bivariate Quantile Varying Coefficient Model, Big data and medical imaging analysis workshop, Sanya, China. 12/2016

[91] Estimation for Bivariate Quantile Varying Coefficient Model, School of big data, Nanjing Audit University, Nanjing, China. 12/2016

[92] Quantile Regression with Varying Coefficients for Functional Responses, ICSA international conference, Shanghai, China. 12/2016

[93] Quantile Regression with Varying Coefficients and its Optimal Estimation for Functional Responses, Department of Stat, University of Wisconsin-Madison, Madison, WI. 11/2016

[94] Quantile Regression with Varying Coefficients for Functional Responses, Department of Mathematics and Statistics, Laval University, Quebec City, QC, Canada. 10/2016

[95] Quantile Regression with Varying Coefficients for Functional Responses, Joint Statistical Meeting, Chicago, IL. 08/2016

[96] Optimal Estimation for Quantile Regression with Functional Response, XXVIIIth International Biometric Conference, Victoria, BC, Canada. 07/2016

[97] Quantile Regression with Varying Coefficients for Functional Responses, the 4th Institute of Mathematical Statistics Asia Pacific Rim Meeting, the Hong Kong Chinese University, Hong Kong. 06/2016

[98] Optimal Estimation for Quantile Regression with Functional Response, Frontiers of Statistics and Data Sciences, the Hong Kong Polytechnic University, Hong Kong. 06/2016

[99] Robust Designs for Nonlinear Quantile Regression, Annual Meeting of the Statistical Society of Canada, Brock University, St. Catherine, ON. 05/2016

[100] Quantile Regression with Varying Coefficients for Functional Responses, the 6th International Workshop on the Perspectives on High-Dimensional Data Analysis (HDDA-VI), the Fields Institute, Toronto, ON. 05/2016

[101] Regularized quantile regression under heterogeneous sparsity with application to quantitative genetic traits, Department of Mathematical and Statistical Sciences, University of Alberta, Edmonton, AB. 01/2016

[102] Regularized Quantile Regression for Quantitative Genetic Traits, International Conference of the ERCIM WG on Computing and Statistics, London, UK. 12/2015

[103] Partial Functional Linear Quantile Regression for Neuroimaging Data Analysis, Department of Statistics, University of South Carolina, Columbia, SC. 12/2015

[104] Robust Spatial Varying Coefficient Model in Neuroimaging Data Analysis, Department of Statistics and Operations Research, University of North Carolina at Chapel Hill, Chapel Hill, NC. 11/2015

[105] Robust Spatial Varying Coefficient Model in Neuroimaging Data Analysis, Department of Statistics, Purdue University, West Lafayette, IN. 10/2015

[106] Tensor Approximation in Functional Linear Quantile Regression, Applied Topology, and High-Dimensional Data Analysis, University of Victoria, Victoria, BC. 08/2015

[107] Regularized Quantile Regression for Quantitative Genetic Traits, ICSA-Canada Chapter 2015 Symposium, University of Calgary, Calgary, Alberta. 08/2015

[108] Robust Spatial Varying Coefficient Model in Neuroimaging Data Analysis, Annual Meeting of the Statistical Society of Canada, University of Dalhousie, Halifax, NS. 06/2015

[109] Robust Spatial Varying Coefficient Model in Neuroimaging Data Analysis, Imaging

Conference, University of Michigan, Ann Arbor, MI. 05/2015
[110] Robust Designs for Nonlinear Quantile Regression, Alberta Math Dialogue (AMD), University of Lethbridge, Lethbridge, AB. 05/2015
[111] Regularized Quantile Regression for Quantitative Genetic Traits, Department of Biostat and Medical Informatics, University of Wisconsin-Madison, Madison, WI. 10/2014
[112] Partial Functional Linear Regression Model for Hyper-Acute Ischemic Stroke Study, Department of Mathematical and Statistical Sciences, University of Alberta, Edmonton, AB. 09/2014
[113] Sparse Partial Functional Linear Regression Model for Hyper-Acute Ischemic Stroke Study, Joint Statistical Meeting, Boston, MA. 08/2014
[114] Composite Quantile Regression in Brain Imaging Data Analysis, IMS Asia Pacific Rim Meeting, Taipei. 07/2014
[115] Estimation in Functional Linear Quantile Regression, ICSA, and KISS Joint Applied Statistics Symposium, Portland, OR. 06/2014
[116] Estimation in Functional Linear Regression, Workshop on Nonparametric Estimation and Functional data, Oregon State University, Corvallis, OR. 06/2014
[117] Simultaneously Sparse Partial Functional Linear Regression in Hyper-Acute Ischemic Stroke Study, Annual Meeting of the Statistical Society of Canada, University of Toronto, Toronto, OR. 05/2014
[118] Sparse Partial Functional Linear Regression Model for Hyper-Acute Ischemic Stroke Study, SIAM Conference on Imaging Science, Hong Kong, China. 05/2014
[119] Spatially Varying Coefficient Model for Neuroimaging Data, Department of Statistics, Texas A&M University, College Station, TX. 03/2014
[120] Spatial Quantile Regression for Neuroimaging Data, Eastern North American Region (ENAR) Spring Meeting, Baltimore, MD. 03/2014
[121] Quantile regression in Variable Screening, Banff International Research Station (BIRS), Banff, AB. 02/2014
[122] Spatially Varying Coefficient Model for Neuroimaging Data with Jump Discontinuities, Department of Statistics and Actuarial Science, University of Waterloo, Waterloo, Ontario. 11/2013
[123] Multivariate Varying Coefficient Models for Functional Responses and its Applications in DTI Data Analysis, Department Statistics Seminar, University of Alberta, Edmonton, AB. 09/2013
[124] Quantile Regression with Multiscale Adaptive Smoothing for Neuroimaging Data, IMS New Researchers Conference, Montreal, QC. 08/2013
[125] Varying Coefficient Models in DTI Data Analysis, SAMSI Neuroimaging Data Analysis workshop, RTP, NC. 06/2013
[126] Simultaneously Sparse Partial Functional Linear Regression Model and its Applications in Hyper-Acute Ischemic Stroke Study, ICSA/ISBS 2013 Joint Statistics Conference, Bethesda, MD. 06/2013
[127] Quantile Regression in Spatially Varying Coefficient Models for Neuroimaging Data, ERCIM WG on Computing and Statistics, Oviedo, Spain. 12/2012
[128] Spatially Varying Coefficient Model for Neuroimaging Data with Jump Discontinuities, Alberta Statisticians' Meeting, University of Alberta, Edmonton, Alberta. 10/2012
[129] Varying Coefficient Models for Neuroimaging Data, Department of Statistics, University of Connecticut, Storrs, Connecticut. 02/2012
[130] Varying Coefficient Models for Neuroimaging Data, Division of Statistics, Northern Illinois University, DeKalb, Illinois. 02/2012
[131] Varying Coefficient Models for Neuroimaging Data, Department of Mathematical and Statistical Sciences, University of Alberta, Edmonton, Alberta. 02/2012
[132] Varying Coefficient Models for Neuroimaging Data, Department of Statistics, Virginia Tech University, Blacksburg, Virginia. 01/2012
[133] Multivariate and Spatial Varying Coefficient Models for Neuroimaging Data, Department of Computer Science, University of Georgia, Athens, Georgia. 01/2012
[134] Multivariate Varying Coefficient Model and its Application to Neuroimaging Data,

Dept of Math, State University of New York at Binghamton, Binghamton, NY. 12/2011

[135] Quantile Tomography: Using Quantiles with Multivariate Data and Applications, Department of Statistics, University of Manitoba, Winnipeg, Manitoba. 04/2010

[136] Multivariate Quantiles with Applications to Growth Charts, Department of Biostatistics, University of North Carolina at Chapel Hill, Chapel Hill, North Carolina. 02/2010

[137] Multivariate Quantile Regression: A Directional Approach, Department of Statistics and Probability, Michigan State University, East Lansing, Michigan. 01/2010

[138] Bivariate Conditional Growth Charts via Directional Quantiles, School of Public Health, University of Saskatchewan, Saskatoon, Saskatchewan. 05/2009

[139] Introduction to Data Aggregation, Knowledge Utilization Studies Program (KUSP), Faculty of Nursing, University of Alberta, Edmonton, Alberta. 12/2008

[140] On Quantiles Applied to Bivariate Growth Charts, Division of Population Health and Information, Alberta Cancer Board, Calgary, Alberta. 03/2008

[141] Quantile Methods for Biometric Charts, Division of Community and Humanities, Memorial University, St. John's, Newfoundland and Labrador. 02/2008

[142] An Approximate Algorithm for Depth Contours in Bivariate Case, Alberta Statisticians' Meeting, University of Calgary, Calgary, Alberta. 10/2007

Short Courses

- *Machine learning algorithms on Conformal inference, privacy data and fairness*, Math Finance and Finance Engineering summer school, Qingdao, China. 07/2023
- *Introduction to Distributional Reinforcement Learning*, Joint Conference on Statistics and Data Science in China, Beijing, China. 07/2023
- *Theory and methodology in nonlinear expectation and artificial intelligence*, Shandong University, China. 11/2022
- *Distributional Reinforcement Learning*, School of Statistics, Remin University, China. 07/2022
- *Introduction to Reinforcement Learning*, ICSA Canada Chapter Symposium, Queen's University, Kingston, ON. 08/2019
- *Statistical methods for Neuroimaging Data Analysis*, the VADA program, University of Manitoba, Winnipeg, Manitoba. 06/2019
- *Introduction to Machine Learning*, Data Science Bootcamp, University of Saskatchewan, Saskatoon, Saskatchewan. 06/2019
- *Statistical Challenges for Neuroimaging Data Analysis*, WNAR, University of Alberta, Edmonton, Alberta. 06/2018
- *Statistical and Mathematical Challenges for Neuroimaging Data Analysis*, ICSA-Canada Chapter 2015 Symposium, University of Calgary, Calgary, Alberta. 08/2015
- *Statistical Methods for Neuroimaging Data Analysis* (joint with Professors Hongtu Zhu and Haipeng Shen), Joint Statistical Meeting, Montreal, QC. 08/2013

Courses Taught

- STAT 665 Asymptotic Methods in Statistical Inference — Winter, 2024
- STAT 541 Statistical Learning — Winter, 2023
- STAT 541 Statistical Learning — Winter, 2022
- STAT 512 Mathematical Methods in Statistics — Fall, 2020
  STAT 562 Categorical Data Analysis
- STAT 665 Asymptotic Methods in Statistical Inference — Winter, 2020
- STAT 512 Mathematical Methods in Statistics — Fall, 2019
  STAT 664 Advanced Statistical Inference
- STAT 575 Multivariate Analysis — Winter, 2018
- STAT 512 Mathematical Methods in Statistics — Fall, 2017
- STAT 441/505 Applied Statistical Methods for Data Mining — Winter, 2017
  STAT 568 Design and Analysis of Experiments
  STAT 575 Multivariate Analysis
- STAT 441/505 Applied Statistical Methods for Data Mining — Winter, 2016
  STAT 568 Design and Analysis of Experiments

- STAT 568 Design and Analysis of Experiments — Winter, 2015
- STAT 512 Mathematical Methods in Statistics — Fall, 2014
  STAT 578 Regression Analysis
- STAT 378/502 Applied Regression Analysis — Fall, 2013
  STAT 578 Regression Analysis
- STAT 575 Multivariate Analysis — Winter, 2013
- STAT 378/502 Applied Regression Analysis — Fall, 2012
- STAT 252 Introduction to Applied Statistics II — Summer, 2009
- STAT 151 Introduction to Applied Statistics I — Summer, 2008

Students Supervised

Postdoctoral Fellows and Visitors

- Pankaj Bhagwat (Statistics), 2023-2026;
- Vahid Tadayon (Statistics), 2023-2026;
- Yi Liu (Statistics), 2023-2024;
- Yixin Han (Statistics), 2023-2026;
- Junxi Zhang (Statistics), 2023-2026;
- Jinhan Xie (Statistics), 2021-2024;

PhD Students

- Yi Liang (Statistics) 2023-2028,
- Wentao Qu (Statistics, Visiting from Beijing Jiaotong University), 2023-2024;
- Bo Pan (Statistics, Joint With Professor Bei Jiang), 2023-2027;
- Hongni Wang (Statistics, Visiting from Shandong University of Finance and Economics), 2023-2025;
- Qirui Hu (Statistics, Visiting from Tsinghua University), 2022-2024;
- Enze Shi (Statistical Machine Learning), 2022-2026;
- Zhixian Yang (Statistics, Joint With Professor Bei Jiang), 2022-2026;
- Haihan Xie (Statistics) 2021-2025, Alberta Graduate Excellence Scholarship (AGES);
- Ke Sun (Statistical Machine Learning), 2020-2024, China Scholarship Council (CSC) Joint Scholarship, Alberta Graduate Excellence Scholarship (AGES);
- Ce Zhang (Statistics), 2020-2024, Doctoral Recruitment Scholarship, Eoin L Whitney Scholarship;
- Lisa Shulman (Statistics, Joint With Professor Bei Jiang), 2019-2023, Queen Elizabeth II Graduate Scholarship, MSc NSERC Scholarship, and Ph.D. NSERC Scholarship;
- Matthew Pietrosanu (Statistics, Joint with Professor Bei Jiang), 2019-2023, MSc NSERC Scholarship, Dick Peter Graduate Scholarship, Josephine Mitchell Graduate Scholarship, Science Graduate Scholarship, Walter H. Johns Graduate Fellowship, Ph.D. NSERC Scholarship; and Dr. Paul Somerville Graduate Scholarship;
- Lei Ding (Statistical Machine Learning, Joint with Professor Bei Jiang), 2018-2023, Dr. Paul Somerville Graduate Scholarship;
- Meichen Liu (Statistics, joint with Professor Bei Jiang), 2018-2023, China Scholarship Council (CSC) Joint Scholarship;
- Na Zhang (Statistics), 2018-2023, China Scholarship Council (CSC) Joint Scholarship;

MSc Students

- Connor Mitchell (Statistics, Joint With Professor Bei Jiang) 2023-2025;
- Jordan Slessor (Statistics) 2022-2024;
- Qichun Chen (Statistics) 2020-2023.

External Examiner for PhD Students

- Yanwen Fang (Statistics), University of Hong Kong,12/2021;
- Chi-Kuang Yeh (Statistics), University of Waterloo, 08/2023;
- Yi Lian (Biostatistics), McGill University, 10/2022;
- Xiaoyu Zhang (Statistics), University of Hong Kong,12/2021;
- Bo Zhang (Statistics), University of Essex, 12/2021;
- Amrutha E (Information and Communication Engineering), Anna University, 11/2021;

- Newlin Shebiah (Electronics and Communication Engineering), Anna University, 01/2021;
- Wenyan Zhong (Statistics), University of Calgary, 01/2019.

Thesis Defence Committee Member for PhD Students
- Junxi Zhang (Statistics), 05/2023;
- Katie Burak (Statistics), 04/2023;
- Michael Armstrong (Chemistry), 09/2021;
- Andrey Pak (Math Finance), 08/2021;
- Yibo Wang (Statistics), 08/2021;
- Yeli Niu (Math), 07/2021;
- Hongxi Wan (Math Finance), 03/2021;
- Yaochen Hu (Electrical and Computer Engineering), 09/2019;
- Sina Yansori (Math Finance), 01/2019;
- Yao Xu (Computer Sciences), 01/2019;
- Elham Khodayari Moez (Biostatistics), 08/2018;
- Sile Tao (Statistics), 05/2018;
- Yuan Yuan (Electrical and Computer Engineering), 09/2017;
- Jude Dzevela Kong (Applied Mathematics), 08/2017;
- Li Zhang (Statistics), 03/2017;
- Majid Nabipoor (Statistics), 09/2016;
- Rui Hu (Statistics), 05/2016;
- Shabnam Vatanpour (Biostatistics), 02/2016;
- Mahdi Shaghaghi (Electrical and Computer Engineering), 11/2014.

Former Group Members

Postdoctoral Fellows:
- Xiaodong Yan (Statistics), 2021-2023; Current Position: Associate Professor at Shandong University;
- Wenxing Guo (Statistics), 2020-2022; Current Position: Lecturer at the University of Essex;
- Yafei Wang (Statistics), 2019-2022; Current Position: Assistant Professor at the University of Alberta;
- Kaiqiong Zhao (Statistics), 2021-2022; Current Position: Assistant Professor at York University;
- Selvakkadunko Selvaratnam (joint with Professor Doug Wiens), 2018-2019, Current Position: Assistant Professor at the University of Toronto;
- Sile Tao, 2018-2019, Current Position: Manager at Scotiabank;
- Peng Liu (joint with Professor Bei Jiang), 2017-2019, Lecturer (Assistant Professor) at the University of Kent;
- Xingcai Zhou (joint with Professor Rohana Karunamuni), 2013-2014, Professor at Nanjing Audit University;

Ph.D Students:
- Yi Liu (Statistical Machine Learning), 2017-2023, Dr. Paul Somerville Graduate Scholarship, Josephine Mitchell Graduate Scholarship, Current position: Postdoctoral fellow at the University of Alberta;
- Mei Li (Statistics, CSC visiting Ph.D., Beijing Jiaotong University), 2021-2022, Current Position: Postdoctoral Fellow at Chinese Academic Sciences;
- Yuzi Liu (Statistics, CSC visiting Ph.D., Jiangxi University of Finance and Economics), 2021-2022, Current Position: Lecturer at Jiangxi University of Finance and Economics;
- Yingnan Zhao (Statistical Machine Learning, CSC visiting Ph.D., Harbin Institute of Technology), 2021-2022 , Current Position: Lecturer at Harbin Engineering University;
- Dan Lu (Statistical Machine Learning, CSC visiting Ph.D., Harbin Engineering University), 2021-2022, Current Position: Lecturer at Harbin Engineering University;
- Wei Tu (Statistics, joint with Professor Rohana Karunamuni), 2015-2020, Ph.D. Entrance Scholarship, Eoin L Whitney Scholarship, Dr. Paul Somerville Graduate Scholarship,

and Josephine Mitchell Graduate Scholarship, Current Position: Assistant Professor at Queen's University.
- Tong Su (Statistics, Visiting Ph.D., Yunnan University), 2019-2020, Current position: Postdoctoral Fellow at Yunnan University;
- Bang Liu (Electrical and Computer Engineering, joint with Professor Di Niu), 2016-2020, Ph.D. Entrance Scholarship, J Gordin Kaplan award, and Alberta Innovates Scholarship, Current Position: Assistant Professor at the University of Montreal;
- Yafei Wang (Statistics, CSC Visiting Ph.D., Beijing Institute of Industry and Technology, joint with Professor Bei Jiang), 2017-2018, Current Position: Assistant Professor at the University of Alberta;
- Dengdeng Yu (Statistics, joint with Professor Ivan Mizera), 2013-2017, FGSR Travel Award, Current Position: Assistant Professor at the University of Texas at Arlinton.

MSc Students:
- Yakun Yang (Statistics) 2021-2023;
- Bo Pan (Biostatistics) 2020-2022;
- Mehrnoosh Bazrafkan (Statistical Machine Learning) 2020-2022;
- Enze Shi (Statistics, Joint with Professor Lingzhu Li) 2020-2022;
- Zhixian Yang (Statistics) 2020-2022;
- Zijun Zhou (Statistics) 2020-2022;
- Xueying Zhang (Statistical Machine Learning, Joint with Professor Yaozhong Hu) 2019-2021;
- Haihan Xie (Statistics) 2019-2021, MSc Entrance Scholarship;
- Yiwei Huang (Statistics) 2019-2021, University Master Scholarship;
- Boya Peng (Biostatistics), 2019-2021;
- Xilai Fu (Statistics, joint with Professor Yan Yuan), 2018-2020.
- Matthew Pietrosanu (Statistics, Joint with Professor Bei Jiang), 2017-2019, MSc NSERC Scholarship, First job: Ph.D. student at the University of Alberta.
- Lisa Shulman (Statistics, Joint with Professor Bei Jiang), 2017-2019, MSc NSERC Scholarship, First job: Ph.D. student at the University of Alberta.
- Jiaxin Zhang (Statistical Machine Learning, Joint with Professor Adam Kashlak), 2017-2019, MSc Entrance Scholarship;
- Fangfang Fu (Statistics), 2016-2018, Ph.D. Entrance Scholarship; First job: Research Assistant at the University of Alberta;
- Dong Yang (Statistics), 2016-2018, First job: Manager at AID Cloud Technology;
- Xi Hu (Statistics), 2016-2018; First job: Data Scientist at Servus Credit Union;
- Xinyuan He (Biostatistics), 2016-2018, First job: Data Analyst at Blue Cross;
- Bingzun Wang (Statistics), 2016-2018, First job: Research Assistant at the University of Alberta;
- Borislav Mavrin (Statistical Machine Learning, joint with Professor Di Niu), 2015-2017, Ph.D. Entrance Scholarship and Eoin L Whitney Scholarship, First job: Data Scientist at Janalta Interactive Inc.;
- Wantong Yin (Statistics), 2015-2017, University Master Scholarship, First job: Research Assistant at IBM China;
- Wenbo Li (Statistics), 2015-2016, First job: AHS Data Analyst;
- Menglu Che (Statistics, joint with Professor Yan Yuan), 2014-2016, Josephine M. Mitchell Scholarship, Ph.D. student at the University of Waterloo;
- Lili Zheng (Statistics), 2014-2015, First job: Sessional Lecturer at MacEwan University;
- Maryam Gholami (MSc, Statistics), 2014-2015; First job: Data Scientist at Statflo;
- Jueyu Gao (MSc, Statistical Machine Learning, joint with Professor Edit Gombay), 2013-2015, First job: Research Assistant at the University of Alberta;
- Shimei Yu, (Biostatistics) 2013-2015, First job: Research Assistant at the University of Calgary;
- Haoxu Shu (Biostatistics), 2013-2015;
- Qian Shi (Statistics), 2012-2014, Profiling Alberta's Graduate Student Award, GSA Professional Development Award, SSC Student Travel Awards, Josephine M. Mitchell GS4

Scholarship, First job: Data Analyst at the University of Alberta.

Undergradaute Students:

- Ketong Shen (Computer Science), 2021-2021;
- Noel Yue (Honor Statistics), 2020-2020;
- Jingyi Wang (Honor Statistics), 2017-2017;
- Yu Zhu (Electrical and Computer Engineering), 2016-2016.

Other Academic Services

Grant and Proposal Referee:

Canadian Agri-Food Automation and Intelligence Network (CAAIN), Canadian Statistical Sciences Institute (CANSSI), Banff International Research Station Workshop (BIRS), National Security Agency-Mathematical Sciences Program (NSA-AMS), National Science Foundation-Methodology, Measurement, and Statistics (NSF-MMS), Mathematics of Information Technology and Complex Systems (MITACS) Elevate Postdoctoral Fellowship, Mathematics of Information Technology and Complex Systems (MITACS) Accelerate Internship, Natural Sciences and Engineering Research Council of Canada Discovery Grant (NSERC-RGPIN).

Journal Referee:

Annals of Applied Statistics, Annals of Statistics, Applied Stochastic Models in Business and Industry, Bernoulli Journal, Biometrics, Biometrika, Bioinformatics, Biostatistics, BMC Research Notes, Brain Connectivity, Canadian Journal of Statistics, Computational Statistics, Computational Statistics and Data Analysis, Communications in Statistics: Simulation and Computation, Communications in Statistics: Theory and Methods, Econometrics, Electronic Journal of Statistics, Frontiers in Neuroscience Brain Image Methods, Genetics, Hacettepe Journal of Mathematics and Statistics, Human Brain Mapping, IJCAI, Journal of Advanced Statistics, Journal of Computational and Graphical Statistics, Journal of Econometrics, Journal of Inequalities and Applications, Journal of Multivariate Analysis, Journal of Nonparametric Statistics, Journal of the American Statistical Association, Applications, and Case Studies, Journal of the American Statistical Association, Theory, and Methods, Journal of the Royal Statistical Society, Series B, Journal of Statistical Computation and Simulation, Journal of Statistical Software, Journal of Spatial Science, Journal of Systems Science and Complexity, Kybernetika, Metrika, Neuroimage: Clinical, NeurIPS, PloS ONE, PSB, Sankhya B, Scandinavian Journal of Statistics, STAT, Statistics in Medicine, Statistica Sinica, Statistical Papers, Statistics: A Journal of Theoretical and Applied Statistics, Technometrics, Transactions on Knowledge and Data Engineering.

Book Review:

Springer Book Series, and Elsevier Book Series.

Committee Service:

- Grant review panel, Banting Research Foundation Discovery Award Program. 2023
- Chair of Webinar committee of ASA Statistical Computing Session. 2022 - 2023
- Chair of ASA SSC Mini-Symposium organizing committee. 2022 - 2022
- Scientific Programme Committee, JSM, Washington, DC. 2021 - 2022
- Organizing Committee chair, ICSA Canada Chapter Symposium, Banff, AB. 2021 - 2022
- WNAR executive committee, local representative. 2021 - 2023
- ASA Stat Compt Graph Sessions student paper committee. 2021 - 2022
- ASA Statistical Computing Session program chair. 2021 - 2022
- SSC executive committee, local representative. 2020 - 2022
- Organizing committee, PIMS Math Industry 2021 (M2PI). 2021
- SMI Student Paper Competition Committee Co-Chair. 2020
- ICW-HDDA-X Scientific Committee, Bandung, Indonesia. 2020
- Program Committee, International Joint Conference on AI (IJCAI). 2020
- Scientific Programme Committee, JSM, Philadelphia, Pennsylvania. 2019
- ASA Statistical Imaging Session program chair. 2019
- Scientific Programme Committee, CFE-CMStatistics conference, London, UK. 2019
- Program Committee, International Joint Conference on AI (IJCAI). 2019

- Scientific Program Committee, ICSA Canada Chapter Symposium, Kinston, ON. 2019
- HDDA IX international committee, Uppsala University, Sweden. 2019
- Program Committee, the 33rd AAAI Conference on Artificial Intelligence (AAAI). 2018
- WNAR annual meeting local organizer, Edmonton, AB. 2018
- HDDA VIII scientific committee, Marrakesh, Morocco. 2018
- Scientific Program Co-chair, ICSA Canada Chapter Symposium, Vancouver, BC. 2017
- ASA Statistical Imaging Session Student Paper Travel Award Committee. 2016
- Workshop Organizing Committee, Math and Stat in NDA (five days), BIRS, AB. 2016
- Workshop Organizing Committee, Recent Advances in SSM (two days), BIRS, AB. 2014
- Faculty Advisory Committee, Inaugural Trainee Conference of SSC, Edn, AB. 2012-2013

Conference Service:

- Workshop Organizer, UofA BIAS workshop, Banff, AB. 2023
- Workshop Organizer, 2023 Upper Bound Conference, AMII, Edmonton, AB. 2023
- Invited Session Organizer, JSM, Toronto, ON. 2023
- Invited Session Organizer, ICSA Canada Chapter Symposium, Banff AB. 2022
- Invited Session Organizer, SSC, Vancouver BC. 2022
- Invited Session Organizer and Chair, ICSA, 2021
- Invited Session Organizer, SMI, Atlanta, Georgia. 2021
- Invited Session Organizer and Chair, WNAR, Anchorage, Alaska. 2021
- Invited Session Organizer, JSM, Philadelphia, Pennsylvania. 2020
- Invited Session Organizer and Chair, ICSA Canada, Kingston, ON. 2019
- Invited Session Organizer and Chair, ICSA China Conference, Tianjin, China. 2019
- Invited Session Organizer, ICSA, Raleigh, NC. 2019
- Invited Session Organizer and Chair, SSC, Calgary, AB. 2019
- Invited Session Organizer, EcoSta 2018, Hong Kong. 2018
- Invited Session Organizer and Chair, WNAR, Edmonton, AB. 2018
- Invited Session Organizer and Chair, SSC, Montreal, QC. 2018
- Invited Session Organizer, ICSA Canada Chapter Symposium, Vancouver, BC. 2017
- Invited Session Organizer, Joint Statistical Meeting, Baltimore, MD. 2017
- Topic-Contributed Session Organizer, EMS, Helsinki, Finland. 2017
- Invited Session Organizer, EcoSta 2017, Hong Kong. 2017
- Invited Session Organizer, ICSA, Chicago, IL. 2017
- Invited Session Organizer and Chair, ICSA international conference, Shanghai. 2016
- Invited Session Organizer and Chair, Joint Statistical Meeting, Chicago, IL. 2016
- Invited Session Co-Organizer and Chair, SSC, St. Catharines, ON. 2016
- Invited Session Co-Organizer and Chair, ENAR, Austin, TX. 2016
- Invited Session Organizer and Chair, Joint Statistical Meeting, Seattle, WA. 2015
- Invited Session Organizer, ICSA/Graybill, Fort Collins, CO. 2015
- Contributed Session Chair, SSC, Halifax, NS. 2015
- Invited Session Chair, Joint Statistical Meeting, Boston, MA. 2014
- Topic-Contributed Session Organizer, IMS Asia Pacific Rim Meeting, Taipei. 2014
- Judge for Student Presentation Competition, SSC, Toronto, OR. 2014
- Minisymposia Co-Organizer, SIAM Conference on Imaging Science, Hong Kong. 2014
- Invited Session Chair, Joint Statistical Meeting, Montreal, QC. 2013
- Contributed Session Chair, WCC for Young Researchers in Math, Calgary, AB. 2007

Department, Faculty and University Service:

- Director, Training Consulting Center, Dept. of Math. & Stat. University of Alberta, Edmonton, Alberta. 2015-present
- Statistics Honor Program Advisor, Dept. of Math. & Stat. University of Alberta, Edmonton, Alberta. 2015-2021
- Statistics Faculty Recruitment Committee Member 2012-2013, 2014-2015, 2016-2017, 2018-2019, 2019-2020, 2022-2023
- Strategic Research Committee, Faculty of Science, University of Alberta, Edmonton, Alberta. 2016-2019

- Statistics Center Webmaster, Dept. of Math. & Stat. University of Alberta, Edmonton, Alberta. 2013-2019
- Biostatistics Faculty Recruitment Advisory Committee Member 2017-2018
- Statistics Seminar Chair, Dept. of Math. & Stat. University of Alberta, Edmonton, Alberta. 2013-2016

Professional Membership

- American Statistical Association (ASA)
- Statistical Society of Canada (SSC)
- Institute of Mathematical Statistics (IMS)
- International Chinese Statistical Association (ICSA)
- International Biometric Society (IBS)
- Eastern North American Region, International Biometric Society (ENAR)
- Western North American Region, International Biometric Society (WNAR)