



International Chinese Statistical Association
泛華統計協會
Canada Chapter



**Advances and Innovations in
Statistics and Data Science
The 4th ICSA – Canada Chapter Symposium**

August 9-11, 2019
Queen's University, Kingston
Ontario, Canada



Canadian Statistical Sciences Institute
Institut canadien des sciences statistiques

*Data • Discoveries • Decisions
Données • Découvertes • Décisions*



Faculty of
Arts and Science

Queen's University
Department of Mathematics and Statistics

Welcome to ICSA – Canada Chapter 2019 Symposium

The Department of Mathematics and Statistics at Queen's University welcomes you to the 4th International Chinese Statistical Association (ICSA) Canada Chapter Symposium in Kingston! We are thrilled to be hosting this exciting academic event. The 2019 symposium will feature a wide range of scientific programs focusing on the latest advances and innovations in statistics and data science as well as two short courses on the cutting-edge statistical methodology. It will bring together over 130 statisticians and researchers from academia, industry and government in many different countries, especially from China, United States, and Canada. We hope to provide a platform to exchange ideas and explore opportunities for collaborations, and that junior statisticians (including the current students) are able to learn from and interact with senior members of the profession.

ICSA-Canada Chapter was founded in 2013. The first symposium was held in Toronto in 2013, the second and third symposium were held in Calgary and Vancouver in 2015 and 2017. The statistics community in Canada has been growing rapidly in past years, and the symposia serve as one of the best venues to bring together statisticians in Canada and around the world to present and discuss research and practices in different fields of statistics and their applications. The organizing committee of the 2019 symposium has been working tirelessly over the past twelve months to make sure that the symposium will be a successful one. More detailed information about the symposium, including a full version of the program book with abstracts of all talks, can be found at <http://www.icsa-canada-chapter.org/symposium2019/>

Kingston, known as the first capital of Canada, is rich in history and culture. It boasts vibrant arts and cultural communities, and internationally-recognized historical sites. For the list of the tourism places, please visit the symposium website.

Devon Lin and Wenyu Jiang
Local Organizing Committee
Department of Mathematics and Statistics
Queen's University

Sponsors

The 4th ICSA-Canada Chapter Symposium acknowledges the generous supports received from the following sponsors (in alphabetical order).

- **Canadian Statistical Sciences Institute (CANSSI)**
- **Department of Mathematics and Statistics, Queen's University**
- **Faculty of Arts and Science, Queen's University**

Committees and Chairs

ICSA – Canada Chapter Executive Committee

- Liqun Wang, Chair, University of Manitoba
- Changbao Wu, Past-Chair, University of Waterloo
- Yingwei Paul Peng, Chair-Elect, Queen’s University
- Leilei Zeng, Secretary/Treasurer, University of Waterloo
- Jianan Peng, East Canada Representative, Acadia University
- Devon Lin, Central Canada Representative, Queen’s University
- Longhai Li, West Canada Representative, University of Saskatchewan

Symposium Organizing Committee

- Liqun Wang (Chair, ICSA-Canada Chapter) University of Manitoba
- Wenqing He (Chair of the Program Committee) University of Western Ontario
- Devon Lin (the Local Committee) Queen's University
- Wenyu Jiang (the Local Committee) Queen’s University
- Lang Wu (Chair of 2017 Symposium) University of British Columbia
- Xuewen Lu (Chair of 2015 Symposium) University of Calgary
- Leilei Zeng (Treasurer and Secretary) University of Waterloo
- Changbao Wu (Past Chair, ICSA-Canada Chapter) University of Waterloo

Symposium Website Manager

- Zhiyong Jin, University of Manitoba

Local Volunteers

- | | |
|---------------------|---------------|
| – Kian Blanchette | – Wen Teng |
| – Xinyi Ge | – Feng Yang |
| – Jiani Heng | – Qianhui Yu |
| – Jordan Kokocinski | – Jianwei Yue |
| – Na Li | – Zimo Zhu |
| – Wanlu Li | |

General Information

Symposium Venue

Biosciences Complex (116 Barrie Street) and School of Kinesiology and Health Studies (28 Division Street) will be used for plenary talks and scientific sessions. The short courses, two plenary talks, and registration will take place at Biosciences Complex, while the scientific sessions will be hosted at both buildings.

Campus Wifi

SSID: QueensuSecure_WPA2 LOGIN: mathwifi PASSWORD: M@thWiFi2019

Registration

Registration will be available in the Atrium of Biosciences Complex on 2 pm – 6pm on Friday, Aug 9. The registration desk will stay open in the Atrium of Biosciences Complex from 8:30am to 5:30pm on Saturday, Aug 10 and from 8:30am to 10am on Sunday, Aug 11.

Lunch

The buffet lunches are available for short courses participants and symposium participants at Leonard Hall (150 Queen's Crescent).

Banquet

Banquet will take place at Isabel Bader Center at 390 King Street West on Aug 10th. The Isabel Bader Center is about 15-minute beautiful walk along the Lake Ontario from Biosciences Complex. The open bar is available at 6pm while the banquet starts at 7:15pm.

Annual General Meeting

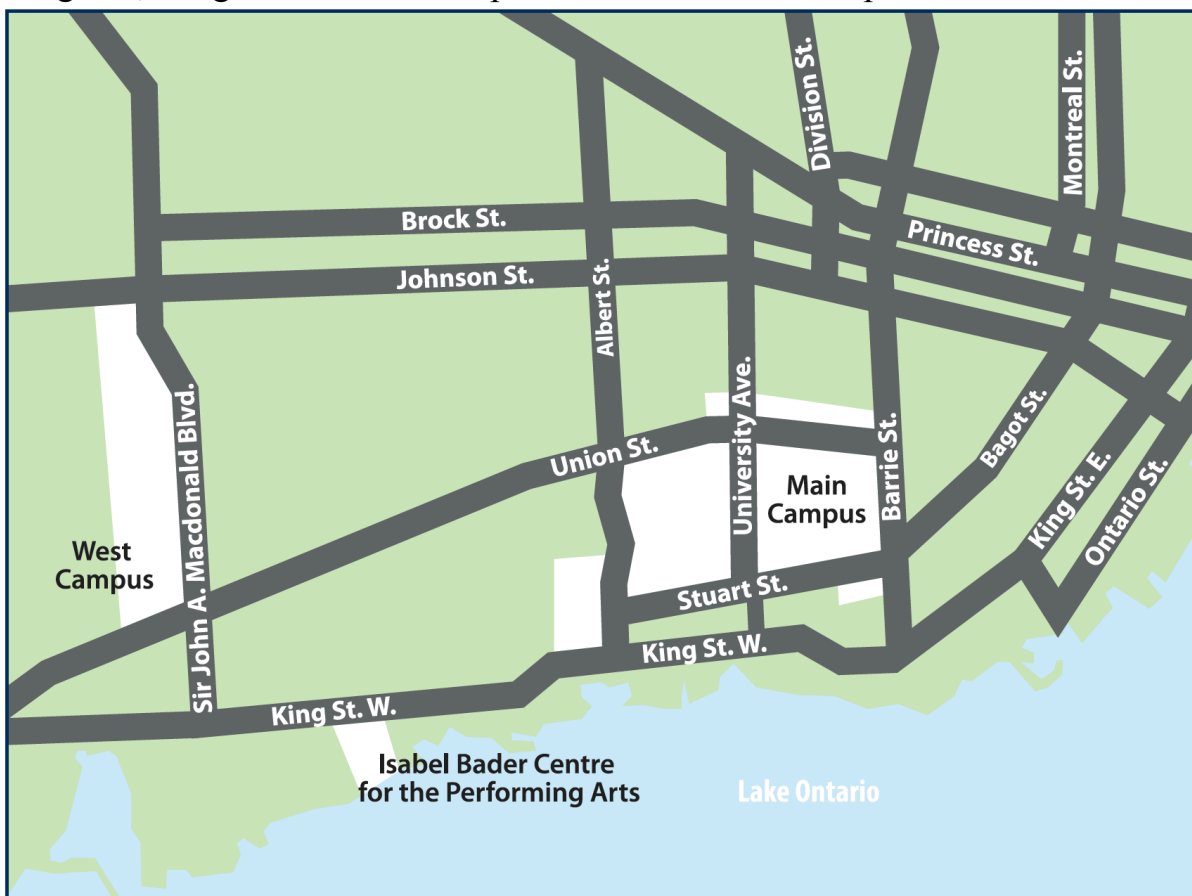
The annual general meeting (AGM) will take place at 5:45 pm – 6:30pm on Aug 10 at Room 1120 in Biosciences Complex.

One Thousand Island Cruise

The cruise takes place between 2:30 – 5pm on Aug 11, Sunday. It will set out in the town of Gananoque (35-minute drive east of Kingston). The bus will pick up all the participants at Leonard Hall at 1:10pm on Aug 11, and drop off on campus around 5:45pm.

Campus Security, Emergency and Hospitals

For campus emergency, contact 613-533-6111. There are two hospitals in downtown Kingston, Kingston General Hospital and Hotel Dieu Hospital.



Schedule for Friday, August 9

Room 1120, Biosciences Complex

- Short Course 1. *Statistical Analysis of High Dimensional Data.*
*Presenter: **Wenqing He**, University of Western Ontario*
- Short Course 2. *Introduction of Reinforcement Learning.*
*Presenter: **Linglong Kong**, University of Alberta*

9:00am – 10:20am	Short Course 1, Part I
10:20am – 10:40am	Coffee Break
10:40am – 12:00pm	Short Course 1, Part II
12:00pm – 2:00pm	Lunch Break (Leonard Hall)
2:00pm – 3:20pm	Short Course 2, Part I
3:20pm – 3:40pm	Coffee Break
3:40pm – 5:00pm	Short Course 2, Part II

Schedule for August 10 and 11

8:45am-9:00am, Opening Remarks

Plenary Talk I 9am-10am, Saturday, August 10th

Session 1: *Keynote Speech 1*

Organizer and Chair: Liquan Wang, University of Manitoba

Room: B-1102, Time: 9:00AM-10:00AM

- (1) Tony Cai, University of Pennsylvania
Title: *When Statistics Meets Computing*

Coffee Break, Biosciences Atrium

Parallel Sessions A 10:30am - 12:10pm, Saturday, August 10th

Session 2: *New Development in the Analysis of Complex Structured Data*

Organizer: Wenqing He, University of Western Ontario

Chair: Dongsheng Tu

Room: B-1102, Time: 10:30AM-12:10PM

- (1) Zhanfeng Wang, University of Science and Technology of China
Title: *Nonparametric Random Effects Functional Regression Model using Gaussian Process Priors*
- (2) Xingqiu Zhao, The Hong Kong Polytechnic University
Title: *Semiparametric Inference for the Functional Cox Model*
- (3) Xin Liu, Shanghai University of Finance and Economics
Title: *Ensembling Imbalanced-Spatial-Structured Support Vector Machine*

Session 3: *Statistical Inference in Mixture and Other Nonregular Models*

Organizer: Pengfei Li, University of Waterloo

Chair: Chunlin Wang

Room: B-1120, Time: 10:30AM-12:10PM

- (1) Pengfei Li, University of Waterloo
Title: *Full Likelihood Inference for Abundance from Capture-Recapture Data*
- (2) Abbas Khalili, McGill University
Title: *Feature Selection and Estimation in Finite Mixture of Varying Coefficient Regression Models*
- (3) Jiahua Chen, University of British Columbia
Title: *Learning Finite Mixture Models by Minimum Wasserstein Distance Estimator*

- (4) Paul Marriott, University of Waterloo
Title: *The Geometry of Finite Mixture and Other Non-Regular Model*

Session 4: *Functional Data Analysis*

Organizer and Chair: Peijun Sang, University of Waterloo

Room: K-106, Time: 10:30AM-12:10PM

- (1) Pang Du, Virginia Tech
Title: *A Two-Sample Test for Spectral Data*
- (2) Gregory Rice, University of Waterloo
Title: *Goodness-of-Fit Tests for Functional GARCH Models*
- (3) Bing Li, Pennsylvania State University
Title: *On Post Dimension Reduction Statistical Inference*

Session 5: *Statistical Methods for Complex Data*

Organizer and Chair: Juxin Liu, University of Saskatchewan

Room: K-107, Time: 10:30AM-12:10PM

- (1) Xuejing Meng, Hubei University of Economics
Title: *Hierarchical Bayesian Models and Its Application in Ecological Environment*
- (2) Alexander de Leon, University of Calgary
Title: *Classification and Prediction with Mixed Measurements Subject to Misclassification*
- (3) Mary E. Thompson, University of Waterloo
Title: *Spatial Multilevel Modeling in the Galveston Bay Recovery Study Survey*
- (4) Lang Wu, University of British Columbia
Title: *Survival Models with Truncated Time-Varying Covariates*

Session 6: *Recent Development in the Statistical Modeling of Complex Data*

Organizer: Dongsheng Tu, Queen's University

Chair: Wenqing He

Room: B-2109, Time: 10:30AM-12:10PM

- (1) Xinyi Ge, Queen's University
Title: *A Threshold Linear Mixed Model for Identification of Treatment-Sensitive Subsets in a Clinical Trial Based on Longitudinal Outcomes and a Continuous Covariate*
- (2) Yi Niu, Dalian University of Technology
Title: *Variable Selection for Marginal Mixture Cure Models via Penalized GEE*
- (3) Dongdong Li, Harvard Medical School
Title: *Comparison Between Breast Cancer Survivors and the General Population in Age at Cardiovascular Disease with Observations Subject to Informative Censoring*

Saturday, August 10th

Session 7: *Advances in Analysis of Complex Data*

Organizer and Chair: Changbao Wu, University of Waterloo

Room: B-2111, Time: 10:30AM-12:10PM

- (1) Song Cai, Carleton University
Title: *A Simple Variable Selection Method Under Two-Fold Subarea Models in Small Area Estimation*
- (2) Hon Yiu So, University of Waterloo
Title: *CORrelated and Misclassified Binary Observations in Complex Surveys (COMBOS)*
- (3) Changbao Wu, University of Waterloo
Title: *Some Theoretical and Practical Aspects of Empirical Likelihood for Complex Survey Data*

Session 8: *New Advances in Nonparametric Statistics for Big Data*

Organizer: Zhengwu Zhang, University of Rochester

Chair: Yanglei Song

Room: K-104, Time: 10:30AM-12:10PM

- (1) Yafei Wang, Beijing University of Technology
Title: *Estimation of Functional Linear Model with Incomplete Observations*
- (2) HaiYing Wang, University of Connecticut
Title: *Optimal Subsampling: Sampling with Replacement vs Poisson Sampling*
- (3) Xing Qiu, University of Rochester
Title: *iSPREAD: A Personalized Inference Pipeline for Medical Images*
- (4) Yize Zhao, Yale University
Title: *Bayesian Subtyping Analysis with Application on Multi-Scale Molecular Data*

Provided Lunch, Leonard Hall (150 Queens Crescent)

Parallel Sessions B

1:50pm - 3:30pm, Saturday, August 10th

Session 9: *Innovative Computing Methods in Biostatistics*

Organizer and Chair: Yeying Zhu, University of Waterloo

Room: B-1102, Time: 1:50PM-3:30PM

- (1) Wenqing He, University of Western Ontario
Title: *Dynamic Tilted Current Correlation for High Dimensional Variable Screening*
- (2) Dehan Kong, University of Toronto
Title: *Causal Inference in Imaging Genetics*

- (3) Liqun Diao, University of Waterloo
Title: *Regression Trees for Interval-Censored Data*
- (4) Yingwei Peng, Queen's University
Title: *A Support Vector Machine Based Semiparametric Mixture Cure Model*

Session 10: *Handling Complex Featured Data*

Organizer: Grace Y. Yi and Weixin Yao, University of Waterloo and University of California

Chair: Grace Yi

Room: B-1120, Time: 1:50PM-3:30PM

- (1) Suojin Wang, Texas A&M University
Title: *Oracally Efficient Estimation and Simultaneous Inference in Partially Linear Single-Index Models for Longitudinal Data*
- (2) Bing Han, RAND Corporation
Title: *Synthetic Estimation for Causal Inference*
- (3) Yanglei Song, Queen's University
Title: *Distribution Approximation and Bootstrap for Suprema of Incomplete U-Processes*
- (4) Zhezhen Jin, Columbia University
Title: *Modeling Treatment Outcomes in Transplant*

Session 11: *Recent Developments in Statistical Methods for Skewed Longitudinal Data and Time Series Data*

Organizer and Chair: Ying Zhang, Acadia University

Room: K-106, Time: 1:50PM-3:30PM

- (1) Toby Kenney, Dalhousie University
Title: *On Consistency of Approaches to Ranking Problems.*
- (2) Zhou Zhou, University of Toronto
Title: *Frequency Detection and Change Point Estimation in Complexly Oscillating Time Series*
- (3) Renjun Ma, University of New Brunswick, Canada
Title: *Tweedie Mixed Models for Skewed Longitudinal Data*
- (4) Hao Yu, University of Western Ontario
Title: *Text Ranking Based on Time Series and Entropy*

Session 12: *Recent Developments in Empirical Likelihood Method*

Organizer and Chair: Pengfei Li, University of Waterloo

Room: K-107, Time: 1:50PM-3:30PM

- (1) Chunlin Wang, Xiamen University
Title: *A Semiparametric Homogeneity Test for Comparing Quality of Life Outcomes in Cancer Clinical Trials*

- (2) Yilin Chen, University of Waterloo
Title: *Estimation of Proportions with Non-Probability Survey Samples Using Pseudo-Empirical Likelihood Method*
- (3) Meng Yuan, University of Waterloo
Title: *Semiparametric Empirical Likelihood Inference with General Estimating Equations*
- (4) Puying Zhao, Yunnan University
Title: *Generalized Empirical Likelihood Inferences for Nonsmooth Moment Functions with Nonignorable Missing Values*

Session 13: *Statistical Inference with Constraints and Complexities*

Organizer: Lang Wu, University of British Columbia

Chair: Hongbin Zhang, City University of New York

Room: B-2109, Time: 1:50PM-3:30PM

- (1) Sanjoy Sinha, Carleton University
Title: *Constrained Inference in Mixed Models for Clustered Data*
- (2) Abdus Sattar, Case Western Reserve University
Title: *Joint Modeling of Longitudinal and Survival Data with Covariates Subject to Limit of Detection*
- (3) Michelle Xia, Northern Illinois University
Title: *Simultaneous Adjustment of Covariate Misclassification and Missingness in Regression Models*
- (4) Jianan Peng, Acadia University
Title: *A Generalization to Dykstras Algorithm for Restricted Least Squares Regression*

Session 14: *New Developments of Statistical Methods for High-Dimensional Data and Complex Sampling Designs*

Organizer: Xuewen Lu, University of Calgary

Chair: Amy Wu

Room: B-2111, Time: 1:50PM-3:30PM

- (1) Zhonglei Wang, Wang Yanan Institute for Studies in Economics and School of Economics, Xiamen University
Title: *Bootstrap Inference for the Finite Population Total under Complex Sampling Designs*
- (2) Qihua Wang, Chinese Academy of Sciences
Title: *Bias-Corrected Kullback-Leibler Distance Criterion Based Model Selection with Covariables Missing at Random*
- (3) Yuehua Wu, York University
Title: *Simultaneous Multiple Change-Point Estimation*
- (4) Hao Ding, York University
Title: *General M-Estimation in High-Dimensional Data Analysis*

Session 15: *Recent Advances of Statistical Methods for Emerging High-Dimensional Biomedical Applications*

Organizer and Chair: Yize Zhao, Yale University

Room: K-104, Time: 1:50PM-3:30PM

- (1) Gen Li, Columbia University
Title: *Zero-Inflated Poisson Factor Model with Application to Microbiome Absolute Abundance Data*
- (2) Yuping Zhang, University of Connecticut
Title: *Integrative Structural Learning of Heterogeneous Exponential Markov Random Fields*
- (3) Linglong Kong, University of Alberta
Title: *High-Dimensional Spatial Quantile Function-on-Scalar Regression in Neuroimaging Analysis*

Coffee Break, Biosciences Atrium

Parallel Sessions C

4:00pm - 5:40pm, Saturday, August 10th

Session 16: *Challenges in the Analysis of Survival Data*

Organizer and Chair: Lang Wu, University of British Columbia

Room: B-1102, Time: 4:00PM-5:40PM

- (1) Grace Yi, University of Waterloo
Title: *Analysis of Error-Prone Survival Data under Additive Harzards Models*
- (2) Qi Cui, Simon Fraser University
Title: *A Copula Model-Based Method for Regression Analysis of Dependent Current Status Data*
- (3) Tao Wang, School of Mathematics, Yunnan Normal University
Title: *A Mixed Effects Model for Analyzing Complex AIDS Clinical Data*
- (4) Hongbin Zhang, City University of New York
Title: *Joint Model of Accelerated Failure Time and Mechanistic Nonlinear Model for Censored Covariates, with Application in HIV/AIDS*

Session 17: *Multivariate Data Exploratory and Modeling Methods*

Organizer and Chair: Renjun Ma, University of New Brunswick

Room: K-1120, Time: 4:00PM-5:40PM

- (1) Connie Stewart, University of New Brunswick Saint John
Title: *A Folded Model for Compositional Data Analysis*
- (2) Jianhua Hu, Shanghai University of Finance and Economics
Title: *Response Variable Selection in Multivariate Linear Models*

- (3) Hong Gu, Dalhousie University
Title: *Poisson Measurement Error Corrected PCA, with Application to Microbiome Data*
- (4) Wilson Lu, Acadia University
Title: *Exploring Properties of an Algorithm on Unequal Probability Sampling without Replacement (UPSWOR)*

Session 18: *Recent Advances in Statistical Methodology*

Organizer and Chair: Amy Wu, York University

Room: K-106, Time: 4:00PM-5:40PM

- (1) Yichen Qin, University of Cincinnati
Title: *Model Confidence Bounds for Model Selection*
- (2) Baisuo Jin, University of Science and Technology of China
Title: *Learning Block Structure in U-Statistic Based Large Correlation Matrices*
- (3) Xiaoping Shi, Thompson Rivers University
Title: *Non-Euclidean Graph-Based Change-Point Test*
- (4) Yingying Fan, University of Southern California
Title: *Large-Scale Inference for Networks*

Session 19: *Causal Inference for Complex Data Challenges*

Organizer and Chair: Dehan Kong, University of Toronto

Room: K-107, Time: 4:00PM-5:40PM

- (1) Michael Wallace, University of Waterloo
Title: *Measurement Error and Precision Medicine*
- (2) Linbo Wang, University of Toronto
Title: *Causal Inference with Confounders Missing not at Random*
- (3) Yeying Zhu, University of Waterloo
Title: *Covariate Balancing by Optimizing Kernel Distance*

Session 20: *Advances in Longitudinal and Survival Studies*

Organizer and Chair: Wei Liu, York University

Room: B-2109, Time: 4:00PM-5:40PM

- (1) Guohua Yan, University of New Brunswick
Title: *Poisson Mixed Models for Longitudinal Binomial Data with Random Number of Trials*
- (2) Xiaoming Lu, Memorial University
Title: *A Joint Model of Longitudinal Quantiles and Multiple-Censored Survival Times*
- (3) Wei Liu, York University
Title: *Joint Likelihood Inference for Semiparametric Nonlinear Mixed-Effects Models with Covariate Measurement Errors and Change Points*

Saturday, August 10th

Session 21: *Advances in Statistical Prediction with Real World Applications*

Organizer and Chair: Yan Yuan, University of Alberta

Room: B-2111, Time: 4:00PM-5:40PM

- (1) Anis Sharafoddini, University of Waterloo
Title: *A New Insight into Missing Data in Predicting Outcomes of Intensive Care Unit Patients*
- (2) Joel Dubin, University of Waterloo
Title: *Some Prediction Problems in Health Research*
- (3) Zihui (Amy) Liu, Princess Margaret Cancer Centre, University Health Network
Title: *Deriving Dosimetric Predictors of Toxicity for Radiation Therapy Planning*

Session 22: *Statistical Learning Methods for High-Dimensional Data*

Organizer and Chair: Longhai Li, University of Saskatchewan

Room: K-104, Time: 4:00PM-5:40PM

- (1) Xuewen Lu, University of Calgary
Title: *Bi-Level Variable Selection Method for Multivariate Failure Time Data*
- (2) Wei Xu, University of Toronto
Title: *Statistical Learning in High-Dimensional Microbiome and Genomic Data*
- (3) Karen Kopciuk, AHS, University of Calgary
Title: *Modelling Ordinal Response Data with High Dimensional, Mixed Covariate Types.*
- (4) Maxime Turgeon, University of Manitoba
Title: *A Tracy-Widom Empirical Estimator for Valid P-Values with High-Dimensional Datasets*

**5:45-6:30 ICSA-Canada Chapter Annual General Meeting (AGM)
Room 1120 in Biosciences Complex.**

**6:00-8:45 Banquet
Isabel Bader Center, 390 King Street West**

Plenary Talk II

9am-10am, Sunday, August 11th

Session 23: *Keynote Speech 2*

Organizer: Liqun Wang, University of Manitoba

Chair: Wenqing He

Room: B-1102, Time: 9:00AM-10:00AM

- (1) Runze Li, Penn State University
Title: *Linear Hypothesis Testing for Generalized Linear Models*

Coffee Break, Biosciences Atrium

Parallel Sessions D

10:30am -12:10pm, Sunday, August 11th

Session 24: *Predictive Methods in Insurance and Finance*

Organizer and Chair: Chengguo Weng, University of Waterloo

Room: B-1102, Time: 10:30AM-12:10PM

- (1) Guojun Gan, University of Connecticut
Title: *Nested Stochastic Valuation of Large Variable Annuity Portfolios: Monte Carlo Simulation and Synthetic Datasets*
- (2) Chengguo Weng, University of Waterloo
Title: *DSA Algorithms for Mortality Forecasting*
- (3) Hong Li, University of Manitoba
Title: *Gompertz Law Revisited: Forecasting Mortality in a Multi-Factor*
- (4) Jiandong Ren, Western University
Title: *Analysis of a Multivariate Compound Loss Model*

Session 25: *Bayesian Methods in Biostatistics*

Organizer and Chair: Shirin Golchi, McGill University

Room: B-1120, Time: 10:30AM-12:10PM

- (1) Eleanor Pullenayegum, Hospital for Sick Children
Title: *Bayesian Approaches to Health Utility Estimation for Economic Evaluations*
- (2) Shirin Golchi, McGill University
Title: *Use of Historical Individual Patient Data in Analysis of Clinical Trials*
- (3) Bingshu Chen, Queens University
Title: *Joint Modeling of Biomarker and Survival Outcome for Clustered Data*
- (4) Audrey Béliveau, University of Waterloo
Title: *BUGSnet: a New All-in-One R Package to Improve the Quality and Reporting of Bayesian Network Meta-Analyses*

Session 26: *Stochastic Models for Dynamic Biological Data*

Organizer: Ximing Xu, Nankai University

Chair: Xueli Xu

Room: K-106, Time: 10:30AM-12:10PM

- (1) Yun Cai, Dalhousie University
Title: *Deconvoluiton Density Estimation with MLE Method*
- (2) Libai Xu, Nankai University
Title: *Stochastic Generalized Lotka-Volterra Dierential Equation Model with an Application to Learning Microbial Community Structures*
- (3) Shen Ling, Dalhousie University
Title: *Handling Block-Missing Data with Model Combination Methods*
- (4) Xueli Xu, Nankai University
Title: *Pupil Center Shift in Young Adults: Large Directional Data Analysis*

Session 27: *New Techniques for Modern Data Analysis*

Organizer: Linglong Kong and Jingjing Wu, University of Alberta and University of Calgary

Chair: Linglong Kong

Room: K-107, Time: 10:30AM-12:10PM

- (1) Yan Yuan, University of Alberta
Title: *The Index Lift in Data Mining Has a Close Relationship with the Association Measure Relative Risk in Epidemiological Studies*
- (2) Brian Franczak, MacEwan University
Title: *Applications using Mixtures of Asymmetric Distributions*
- (3) Ejaz Ahmed, Brock University
Title: *Big Data Big Bias Small Surprise!*
- (4) Mihye Ahn, University of Nevada, Reno
Title: *Spatially Weighted Reduced-Rank Framework for Group Analysis of Functional Neuroimaging Data*

Session 28: *Analysis of Complex Structured Data*

Organizer and Chair: Wenqing He, University of Western Ontario

Room: B-2109, Time: 10:30AM-12:10PM

- (1) Liqun Wang, University of Manitoba
Title: *Variable Selection and Estimation in Generalized Linear Models with Measurement Error*
- (2) Ying Zhang, Acadia University
Title: *Some Nonparametric Rank-Based Statistics in Time Series Trend Analysis*
- (3) Longhai Li, University of Saskatchewan
Title: *Estimating Cross-Validatory Predictive P-Values with Integrated Importance Sampling for Disease Mapping Models*

- (4) Wenyu Jiang, Queen's University
Title: *Testing for Cluster Heterogeneity in Joint Modeling of Survival Time and a Marker Response in Clinical Trials*

Session 29: *Contributed Talks*

Organizer and Chair: Francois Marshall, Queen's University

Room: B-2111, Time: 10:30AM-12:10PM

- (1) Kaili Jing, University of Ottawa
Title: *Distributed Hard Screening for Massive Data*
- (2) Xingxiang Li, University of Ottawa
Title: *Distributed Feature Screening via Componentwise Debiasing*
- (3) Zhiyang Zhou, Simon Fraser University
Title: *Functional Continuum Regression*
- (4) Wen Teng, Queen's University
Title: *Simultaneous Confidence Bands for Treatment-Biomarker Interaction Effects in Clinical Trials Based on Local-Partial Likelihood*
- (5) Dave Riegert, Queen's University
Title: *Function Estimation - A Possible Approach to Non-Stationarity*
- (6) Francois Marshall, Queen's University
Title: *A Monte Carlo Study of the Distributions in Spectral Analysis*

Provided Lunch, Leonard Hall (150 Queens Crescent)

2:30pm -5pm Cruise Trip

The cruise will set out in the town of Gananoque (35-minute drive east of Kingston). The bus will pick up all the participants at Leonard Hall at 1:10pm on Aug 11, and drop off on campus around 5:45pm.

List of Participants

Note: late registrants are not listed here.

Last Name	First Name	Organization	Email
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