Ivor Cribben

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Contact Information

Department of Accounting and Business Analytics
Alberta School of Business, University of Alberta
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Areas of Expertise

My current research interests include methods for high dimensional data, time series analysis, econometrics, graphical models/networks, multilayer networks/tensors, machine learning, computational statistics, and non-parametric statistics. In particular, my research program is fundamental research in statistics, and focuses on the development of novel statistical methods with a particular emphasis on the application of these methods to neuroimaging, economic, and sports data.

Academic Positions

Alberta School of Business, University of Alberta

7 | 2023 –	Professor, Department of Accounting and Business Analytics
9 | 2019 – 8 | 2025	Graduate Chair, Information and Information Systems (OIS)
7 | 2018 – 6 | 2023	Associate Professor, Department of Accounting and Business Analytics
7 | 2012 – 6 | 2018	Assistant Professor, Department of Finance and Statistical Analysis

University of Alberta

9 | 2014 –	Member, Neuroscience and Mental Health Institute
9 | 2013 –	Adjunct Professor, Department of Mathematical and Statistical Sciences

International

12 | 2024 – 12 | 2024	Visiting Researcher El Instituto de Estadística, Universidad de la República, Uruguay
9 | 2018 – 12 | 2018	Visiting Researcher Centre of Mathematics of the University of Porto (CMUP), Portugal
6 | 2016 – 6 | 2016	European Union Erasmus+ Visiting Scholar Department of Statistics, Ludwig Maximilian University of Munich, Germany
1 | 2016 – 5 | 2016	New Research Fellow Statistical and Applied Mathematical Sciences Institute (SAMSI), Research Triangle Park, North Carolina, USA

3 | 2015 – 6 | 2015	Endeavour Fellow Department of Statistics, Macquarie University, Sydney, Australia
4 | 2014 – 4 | 2014	Visiting Scholar Department of Statistics, University of California, Irvine, USA
1 | 2014 – 2 | 2014	Visiting Fellow Isaac Newton Institute for Mathematical Sciences, University of Cambridge, UK
4 | 2013 – 6 | 2013	Visiting Scholar Haas School of Business, University of California, Berkeley, USA

Honors

2023 Xerox Faculty Fellow, Alberta School of Business
2019 Xerox Faculty Fellow, Alberta School of Business
2018 Canada Research Chair (Tier 2) in Banking Analytics (declined)
2017 Best Paper Award Finalist for "Extremal Dependence in Australian Electricity Markets", 16th International Business and Economy Conference
2016 Canadian Utilities Faculty Fellow, Alberta School of Business
2015 Pearson Faculty Fellow, Alberta School of Business
2013 Xerox Faculty Fellow, Alberta School of Business
2011 Yeh Family Fellowship, Columbia University
2007 Faculty Fellowship, Columbia University
2008 Howard Levene Outstanding Teaching Award, Columbia University
2004 Research Demonstratorship Scholarship, University College Dublin
1999 Entrance Exhibition Award, Trinity College Dublin
1999 Gallaher Scholarship, Gallaher Group
1997 Gallaher Scholarship, Gallaher Group

Education

Columbia University

Ph.D. in Statistics, 2012; M.Phil. in Statistics, 2010; M.A. in Statistics, 2008
Advisor: Martin A. Lindquist

University College Dublin

M.Sc. in Applied Statistics, First Class Honours
Thesis: Parties, Politics and Democracy using Multivariate Cointegration
Advisor: Patrick Murphy

University of Dublin, Trinity College

B.A. in Mathematics, First Class Honours

Research Grants (Awarded)

All Principal Investigator (PI) unless otherwise stated

International

9 | 2018 – 12 | 2018 **Project Title: Time Series Analysis**
Centre of Mathematics of the University of Porto (CMUP) Fellowship
Total Award: EUR 2,650

1 | 2016 – 5 | 2016 **Project Title: Challenges in Computational Neuroscience**
SAMSI New Research Fellowship
Total Award: USD$ 16,700

2 | 2015 – 5 | 2015 **Project Title: Estimating Time Varying Networks**
Endeavour Executive Fellowship
Total Award: AUD$ 18,500

National

4 | 2024 – 3 | 2029 **Project Title: Tensors: new methodology and applications**
Natural Sciences and Engineering Research Council (NSERC) Discovery Grant
Total Award: CAD$ 140,000

5 | 2024 – 5 | 2025 **Enhancing Digital Marketing and Business Intelligence for Hyspecs Eyewear**
Mitacs Accelerate Fellowship
Total Award: CAD$ 60,000

4 | 2021 – 3 | 2024 **Project Title: Sports Analytics**
Canadian Statistical Sciences Institute (CANSSI) Collaborative Research Team Project
Total Award: CAD$ 200,000
Collaborator

4 | 2018 – 3 | 2024 **Project Title: Networks for Multivariate Time Series**
Natural Sciences and Engineering Research Council (NSERC) Discovery Grant
Total Award: CAD$ 108,000

6 | 2015 – 7 | 2016 **Project Title: Stress Testing in the Alberta Business Environment**
Mitacs Accelerate Fellowship
Total Award: CAD$ 60,000
Co-Principal Investigator (Co-PI) with Valentina Galvani

7 | 2014 – 3 | 2018 **Project Title: Addiction and Mental Health Strategic Clinical Network**
Alberta Health Services (AHS) Grant
Total Award: CAD$ 30,000

7 | 2014 – 7 | 2015 **Project Title: Anomaly Detection in Time Series Data**
HeadCount Grant
Total Award: CAD$ 20,000
Co-Principal Investigator (Co-PI) with Michele Samorani

University of Alberta

7 | 2024 – 3 | 2025	**Project Title: Multilayer transportation networks: future station planning and limited mobility accessibility** Support for the Advancement of Scholarship (EFF-SAS) Total Award: CAD$ 5,500
7 | 2023 – 12 | 2024	**Project Title: Complex multilayer network systems for transportation, finance, and psychology** Alberta School of Business Xerox Faculty Fellowship Total Award: CAD$ 15,000
7 | 2021 – 3 | 2022	**Project Title: Multilayer networks for modern complex systems** Support for the Advancement of Scholarship (EFF-SAS) Total Award: CAD$ 7,800
7 | 2021 – 7 | 2025	**Project Title: Censorship in China** China Institute Faculty Research Grant Total Award: CAD$ 5,000
10 | 2020 – 3 | 2021	**Project Title: Multilayer networks for modern complex systems** SSHRC Supplemental Institutional Grant (SIG) Total Award: CAD$ 5,000
7 | 2019 – 6 | 2020	**Project Title: High-dimensional time series** Alberta School of Business Xerox Faculty Fellowship Total Award: CAD$ 15,000
2 | 2018 – 12 | 2018	**Project Title: Role of Information Control and Propaganda in China** China Institute Faculty Research Grant Total Award: CAD$ 4,700
4 | 2016 – 3 | 2017	**Project Title: Extremal Dependence in Electricity Markets and Climate** Alberta School of Business Canadian Utilities Faculty Fellowship Total Award: CAD$ 15,000
4 | 2015 – 3 | 2016	**Project Title: Financial Networks** Alberta School of Business Pearson Faculty Fellowship Total Award: CAD$ 15,000
4 | 2013 – 3 | 2014	**Project Title: Statistics, Genetics and Preferences** Alberta School of Business Xerox Faculty Fellowship Total Award: CAD$ 12,000

Travel Awards

2024 Distinguished Visitor Travel Award, Universidad de la República
2024 Institute for Mathematical and Statistical Innovation (IMSI), National Science Foundation (NSF)
2019 Killam Research Fund Travel Award, University of Alberta
2017 Killam Research Fund Travel Award, University of Alberta
2017 Eastern North American Region/International Biometric Society Travel Award
2016 European Union Erasmus+ Mobility Programme, Ludwig Maximilian University of Munich
2015 Pacific Institute for the Mathematical Sciences (PIMS) Travel Award
2015 Institute of Mathematical Statistics (IMS) New Researchers Conference Travel Award
2014 Pacific Institute for the Mathematical Sciences (PIMS) Travel Award
2014 Institute of Mathematical Statistics (IMS) New Researchers Conference Travel Award

2014 Isaac Newton Institute for Mathematical Sciences Travel Award, University of Cambridge

2013 SAMSI Low-dimensional Structure in High-dimensional Systems Workshop Travel Award, National Science Foundation (NSF)

2013 Killam Research Fund Travel Award, University of Alberta

2013 Institute of Mathematical Statistics (IMS) New Researchers Conference Travel Award

2012 Developing Statistical Methods for NeuroImaging Workshop Travel Award, National Science Foundation (NSF)

Editorial Boards

11 | 2025 – Associate Editor, *Journal of the Royal Statistical Society, Series A*

10 | 2021 – 08 | 2025 Associate Editor, *Data Science for Science*

Publications (peer reviewed)

Google Scholar citations: 2111, h-index: 22, i10-index: 35, available here (as of September 23, 2026)
* indicates graduate student, ** indicates undergraduate student

[48] Ding, L., Ingolfsson, A., **Cribben, I.** (2026) Queueing-informed causal inference for behavioral queueing data (Under review).

[47] *Behrooz, M., Lee, I., **Cribben, I.** (2026) Optimal Retirement Timing: A Data-Driven Model using CLSA data (Under review).

[46] *Zeinali, Y., **Cribben, I.** (2025) An integrated framework for clustering based multivariate time series prediction (Under review).

[45] *Ondrus, M., Feng, Y., **Cribben, I.** (2025) SLICE: A direct method for the estimation of the sparse and latent variable components of a Gaussian graphical model (Under review).

[44] *Ondrus, M., **Cribben, I.** (2025) Change point based dynamic functional connectivity estimation outperforms sliding window and static estimation for classification of early mild cognitive impairment in resting-state fMRI (Major Revision at *Imaging Neuroscience*). Available on biorxiv

[43] *Goel, J., Ofori-Boateng, D., **Cribben, I.**, Gel Y.R. (2026) Tensor Graphical Lasso for Cryptocurrency Portfolio Analytics. *Journal of the Royal Statistical Society, Series A* **189(2)**, 768-782.

Media Coverage: *Alberta School of Business* (Available here).

[42] *Ondrus, M., **Cribben, I.**, Feng, Y. (2026) A latent multilayer graphical model for modelling complex, interdependent systems. *Advances in Neural Information Processing Systems* (*NeurIPS*) **38**, 115351-115370.

[41] Anastasiou, A., **Cribben, I.** (2026) Tensor time series change-point detection in cryptocurrency network data. *Journal of the Royal Statistical Society, Series A* **189(2)**, 723-743.

Media Coverage: *Alberta School of Business* (Available here).

[40] *Zhang, W., **Cribben, I.**, Petrone, S., Guindani, M. (2025) Bayesian Time-Varying Tensor Vector Autoregressive Models for Dynamic Effective Connectivity. *Bayesian Analysis* **1(1)**, 1–31.

[39] *Han, L., **Cribben, I.**, Trück, S. (2025) Extremal Dependence in Australian Electricity Markets. *Journal of Commodity Markets*, 100476.

[38] Kirch, C., Binder, H., Brannath, W., **Cribben, I.** et al. (2025) Challenges and Opportunities for Statistics in the Era of Data Science. *Harvard Data Science Review*), **7(2)**.

[37] *Ondrus, M., **Old, E., **Cribben, I.** (2025) Factorized Binary Search: change point detection in the network structure of multivariate high-dimensional time series. *Imaging Neuroscience* **3**, imag_a_00520.

[36] *Ding, L., **Cribben, I.**, Ingolfsson, A., **Tran, M. (2025) Do NHL goalies get hot in the playoffs? A multilevel logistic regression analysis. *Journal of Sports Analytics* **11**, 22150218251314737.

Media Coverage: *The New Yorker* (Available here).
CBC Radio (Available here).
University of Alberta Folio (Available here).

[35] *Goel, J., Ofori-Boateng, D., Gel Y.R., **Cribben, I.** (2024) Time series of weakly dependent tensors. *European Conference on Machine Learning and Principles and Practice of Knowledge Discovery in Databases* (*ECML PKDD 2024*) (pp. 249-264). Cham: Springer Nature Switzerland.

[34] *Ondrus, M., **Cribben, I.** (2024) fabisearch: A Package for Change Point Detection in and Visualization of the Network Structure of Multivariate High-Dimensional Time Series in R. *Neurocomputing* **578**, 127321.

Media Coverage: *University of Alberta* (Available here).

[33] Fišar, M., Greiner, B., Huber, C., Katok, E., Ozkes, A., and the Management Science Reproducibility Collaboration (2024). Reproducibility in Management Science. *Management Science* **70(3)**, 1343-1356.

[32] Anastasiou, A., **Cribben, I.** (2024) Discussion of 'Automatic Change-Point Detection in Time Series via Deep Learning' by Li, Fearnhead, Fryzlewicz and Wang (2023). *Journal of the Royal Statistical Society, Series B*: qkad149.

[31] **Xiong, X., **Cribben, I.** (2023) The state of play of reproducibility in Statistics: an empirical analysis. *The American Statistician* **77(2)**, 115–126.

Altmetric score 20..
Media Coverage: *Psychology Inside Out Podcast: The Replication Crisis* (*S3E19*) (Available here).

[30] *Pietrasik, W., **Cribben, I.**, Olsen, F., Malykhin, N.V. (2023) Diffusion Tensor Imaging of Superficial Prefrontal White Matter in Healthy Aging. *Brain Research* **1799**, 148152.

[29] **Xiong, X., **Cribben, I.** (2023) Beyond linear dynamic functional connectivity: a vine copula change point model. *Journal of Graphical and Computational Statistics* **32(3)**, 853–872.

[28] Anastasiou, A., **Cribben, I.**, Fryzlewicz, P. (2022) Cross-covariance isolate detect: a new change-point method for estimating dynamic functional connectivity. *Medical Image Analysis* **75**, 102252.

[27] Brown, M.R.G., Pazderka, H., Agyapong, V., Greenshaw, A.J., **Cribben, I.**, et al. (2021) Mental health symptoms unexpectedly increased in students aged 11-19 years during the 3.5 years after the 2016 Fort McMurray Wildfire: Findings from 9,376 survey responses. *Frontiers in Psychiatry* **12**, 682.

[26] *Ofori-Boateng, D., Gel Y.R., **Cribben, I.** (2021) Nonparametric anomaly detection on time series of graphs. *Journal of Graphical and Computational Statistics*, **30**, 756–767.

[25] *Hrybouski, S., **Cribben, I.**, McGonigle, J., **Olsen, F., **Carter, R., Seres, P., Madan, C.R., Malykhin, N.V. (2021) Investigating the effects of healthy cognitive aging on brain functional connectivity using 4.7 T resting-state functional Magnetic Resonance Imaging. *Brain Structure and Function* **226**, 1067–1098.

[24] Xu, M., Reiss, P., **Cribben, I.** (2021) Generalized reliability based on distances. *Biometrics* **77**, 258–270.

One of the most downloaded* during its first 12 months of publication *Biometrics*.

[23] *Rezaei, M., **Cribben, I.**, Samorani, M. (2021) A clustering-based feature selection method for automatically generated relational attributes. *Annals of Operation Research* **303**, 233-–263.

[22] *Pietrasik, W., **Cribben, I.**, *Olsen, F., *Huang, Y., Malykhin, N.V. (2020) Diffusion Tensor Imaging of the Corpus Callosum in Healthy Aging: Investigating Higher Order Polynomial Regression Modelling. *NeuroImage* **213**, 116675.

[21] Brown, M.R.G., Agyapong, V., Omeje, J., **Cribben, I.**, et al. (2019) Significant PTSD and other mental health effects present 18 months after the Fort McMurray Wildfire: Findings from 3,070 Grade 7-12 Students. *Frontiers in Psychiatry* **8**, 81.

Altmetric score 143. In the top 5% of all research outputs scored by Altmetric.

[20] Brown, M.R.G., Agyapong, V., Greenshaw, A.J., **Cribben, I.**, et al. (2019) After the Fort McMurray wildfire there are significant increases in mental health symptoms in Grade 7-12 students compared to controls. *BMC Psychiatry* **19(1)**, 18.

Altmetric score 162. In the top 5% of all research outputs scored by Altmetric.

[19] **Cribben, I.** (2019) Change points in heavy tailed multivariate time series: methods using precision matrices. *Applied Stochastic Models in Business and Industry* **35(2)**, 299–320.

[18] *Hart, B., **Cribben, I.**, Fiecas, M. (2018) A longitudinal model for functional connectivity using resting-state fMRI. *NeuroImage* **178**, 687–701.

[17] *Hamza, D.M., Bercov, M., *Suen, V.Y.M., Allen, A., **Cribben, I.**, et al. (2018) School-Based Screening, Brief Interventions and Referral to Treatment (SBIRT) Significantly Decreases Long-Term Substance Abuse in 6,227 Students Aged 11-18. *Journal of Addictive Behaviors and Therapy* **2:6**.

[16] *Zhu, Y., **Cribben, I.** (2018) Sparse graphical models for functional connectivity networks: best methods and the autocorrelation issue. *Brain Connectivity* **8**, 139–165.

[15] *Chouinard, B., Volden, V., **Cribben, I.**, Cummine, J. (2017) Neurological evaluation of the selection stage of metaphor comprehension in individuals with and without autism spectrum disorder. *Neuroscience* **361**, 19–33.

[14] Bakhtiari, R., Cummine, J., **Reed, A., **Fox, C.M., *Chouinard, B., **Cribben, I.**, Boliek, C.A. (2017) Changes in brain activity following intensive voice treatment in children with cerebral palsy. *Human Brain Mapping* **38(9)**, 4413–4429.

[13] Silverstone, P.H., Bercov, M., *Suen, V.Y.M., Allen, A., **Cribben, I.**, et al. (2017) Long-term results from the empowering a multimodal pathway toward healthy youth program, a multimodal school-based approach, show marked reductions in suicidality, depression, and anxiety in 6,227 students in Grades 6-12 (aged 11-18). *Frontiers in Psychiatry* **8**, 81.

Altmetric score 49. In the top 5% of all research outputs scored by Altmetric.

[12] *Suen, V., Brown, M. R., Morck, R. K., **Cribben, I.**, Silverstone, P. H. (2017). Risk Tolerance, Impulsivity, and Self-esteem: Differences and Similarities between Gamblers and Non-Gamblers in a Pilot Study. *Advances in Social Sciences Research Journal*, 4(4), 173–186.

[11] Silverstone, P.H., Rittenbach, K., *Suen, V.Y.M., Moretzsohn, A., **Cribben, I.**, et al. (2017) Depression outcomes in Adults attending Family Practice were not improved by screening, Stepped-care, or on-line CBT during a 12-week study when compared to controls in a randomized trial. *Frontiers in Psychiatry* **8**, 32.

[10] **Cribben, I.**, Yu, Y. (2017) Estimating whole brain dynamics using spectral clustering. *Journal of the Royal Statistical Society, Series C* **66**, 607-–627.

[9] Fiecas, M., **Cribben, I.**, Bahktiari, R., Cummine, J. (2017) A variance components model for statistical inference on functional connectivity networks. *NeuroImage* **149**, 256–266.

[8] Yu, Y., **Cribben, I.** (2017) Invited discussion of 'Should we sample a time series more frequently?: decision support via multirate spectrum estimation' by Nason et al. (2017). *Journal of the Royal Statistical Society, Series A* **180(2)**, 384–386.

[7] *Suen, V. Y. M., Brown, M. R. G., **Cribben, I.**, Morck, R. K., Silverstone, P. H. (2016) Frequent Sub-Threshold Gamblers Display Unique Pattern of Brain Activation during Investment Decision-Making Task. *Journal of Psychiatry and Mental Health* **1(1)**.

[6] Westbury, C.F., **Cribben, I.**, Cummine, J. (2016) Imaging imageability: Behavioral effects and neural correlates of its interaction with affect and context. *Frontiers in Human Neuroscience* **10**, 346.

[5] Cummine, J., **Cribben, I.**, **Luu, C., Kim, E., Bahktiari, R., Georgiou, G., Boliek, C.A. (2016) Understanding the Role of Speech Production in Reading: Evidence for a Print-to-Speech Neural Network using Graphical Analysis. *Neuropsychology* **30(4)**, 385–397.

[4] Silverstone, P.H., Bercov, M., *Suen, V.Y.M., Allen, A., **Cribben, I.**, et al. (2015) Initial Findings from a Novel School-Based Program, EMPATHY, Which May Help Reduce Depression and Suicidality in Youth. *PLoS ONE* **10(5)**: e0125527.

[3] **Cribben, I.**, Wager, T.D., Lindquist, M.A. (2013) Detecting functional connectivity change points for single-subject fMRI data. *Frontiers in Computational Neuroscience* **7:143**.

[2] **Cribben, I.**, Haraldsdottir, R., Atlas, L., Wager, T.D., Lindquist, M.A. (2012) Dynamic Connectivity Regression: Determining state-related changes in brain connectivity. *NeuroImage* **61(4)**, 907–920.

[1] Davis, R.A., Mikosch, T., **Cribben, I.** (2012) Towards Estimating Extremal Serial Dependence via the Bootstrapped Extremogram. *Journal of Econometrics* **170(1)**, 142–152.

Technical Reports (non-peer reviewed)

[2] **Cribben, I.**, *Zeinali, Y. (2023). The Benefits and Limitations of ChatGPT in Business Education and Research: A Focus on Management Science, Operations Management and Data Analytics. Available on ssrn.

> SSRN's Top Ten download list Topics and Sub-Topics including: InfoSciRN: Other Data Analysis & Data Analytics (Sub-Topic); InfoSciRN Subject Matter eJournals, InfoSciRN: Artificial Intelligence (Topic); InfoSciRN: Machine Learning (Sub-Topic); InfoSciRN: Other Artificial Intelligence (Sub-Topic); Information & Library Science Research Network and Libraries & Information Technology eJournal; DecisionSciRN: Other Business Analytics (Sub-Topic); EduRN: Information Systems & eBusiness Education (ISN) (Topic); Probability & Statistics eJournal; MathRN: Applications of Statistical Modeling (Topic); Other Operations Research eJournal; MathRN Subject Matter eJournals; MathRN: Applications of Statistical Modeling (Topic); MathRN: Applications of Statistical Modeling (Topic); Mathematics Research Network, Probability & Statistics eJournal and Probability & Statistics eJournal & Education Research (Topic).

[1] Davis, R.A., Mikosch, T., **Cribben, I.** (2012) Estimating Extremal Dependence in Univariate and Multivariate Time Series via the Extremogram. arXiv:1107.5592 [stat.ME]

Book Chapters

[1] **Cribben, I.**, Fiecas, M. (2016) Functional Connectivity Analyses for fMRI Data. *Handbook of*

Statistical Methods for Brain Signals and Images (eds. Ombao, H., Lindquist, M., Thompson W., and Aston, J.).

Open Source Software

Number of downloads in [], source: `https://www.datasciencemeta.com/rpackages`

[5] vccp, an R package to detect change points in functional connectivity by the Vine Copula Change Point Model (2021). Available on CRAN. [**13269**]

[4] fabisearch, an R package for a new change point detection method in the network structure of multivariate high-dimensional time series (2021). Available on CRAN. [**16999**]

[3] ccid, an R package for a new change-point method for estimating dynamic functional connectivity (2021). Available on CRAN. [**18478**]

[2] extremogram, an R package for estimating extreme value dependence within and across time series (2015). Available on CRAN. [**36991**]

[1] NCPD, an R package for network change point detection using spectral clustering (2015).

Conference Talks (* = Invited)

2026 * Mathematical and Statistical Foundations for Knowledge Graph Reasonings Workshop, Casa Matemática, Oaxaca, Oaxaca, Mexico

2026 * 35th International Symposium on Statistics, Bogota, Colombia

2025 * The 13th Conference of the International Association for Statistical Computing - Asia Region (IASC-ARS), Ho Chi Minh, Vietnam

2025 * Statistics for Learning from Complex Data: Foundations and Applications, King Abdullah University of Science and Technology (KAUST), Saudi Arabia

2025 * Data Science, Statistics, & Visualization (DSSV), Kruger National Park, South Africa

2025 * The Western North American Region of The International Biometric Society (WNAR) Whistler, Canada

2024 * Challenges in Neuroimaging Data Analysis, Institute for Mathematical and Statistical Innovation (IMSI), Chicago, USA

2024 * 10th International Conference on Control, Decision and Information Technologies (CoDIT) Valletta, Malta

2024 * Decision Sciences Institute (DSI) Pedagogy Conference (virtual)

2024 * Southeast Decision Sciences Institute (SEDSI) Annual Conference, Charleston, USA

2023 * 9th International conference on Time Series and Forecasting (ITISE), Gran Canaria, Spain

2023 * The Western North American Region of The International Biometric Society (WNAR) Anchorage, USA

2023 * Challenges for statistics in the era of data science, Hannover, Germany

2023 * Statistical Challenges for Complex Brain Signals and Images Workshop, Casa Matemática Oaxaca, Oaxaca, Mexico

2023 * Rocky Mountain Business Seminar, Jasper, Alberta, Canada

2022 * 15th International Conference of the ERCIM WG on Computational and Methodological Statistics, King's College London, UK (virtual)

2022 * 5th International Conference on Econometrics and Statistics, Kyoto, Japan (virtual)
2022 * 19th Applied Business and Entrepreneurship Association International Meeting, Waikoloa, Hawaii, USA

2021 * 14th International Conference of the ERCIM WG on Computational and Methodological Statistics, London, UK (virtual)

2020 * Eastern North American Region/International Biometric Society Annual Meeting, Nashville, USA (virtual)

2019 * 12th International Conference of the ERCIM WG on Computational and Methodological Statistics, London, UK
2019 * 62nd ISI World Statistics Congress, Kuala Lumpur, Malaysia
2019 * Big Data Analysis of Neuroimaging & Genetics: Advanced Statistical & Machine Learning Methods for Brain Connectomics, Universiti Teknologi Malaysia, Kuala Lumpur, Malaysia
2019 Conference on current trends in survey statistics, Institute for Mathematical Sciences, National University of Singapore, Singapore
2019 * Workshop Change Point Detection: Limit Theorems, Algorithms, and Applications in Life Sciences, Greifswald, Germany
2019 * AI, Ethics and Society Conference, University of Alberta, Edmonton, Canada
2019 Computationally-intensive methods for the robust analysis of non-standard data (CRoNoS) meetings, Limassol, Cyprus

2018 10th EMR-IBS and Italian Region conference, Jerusalem, Israel
2018 * Joint Statistical Meeting, Vancouver, Canada
2018 * XXIXth International Biometric Conference, Barcelona, Spain
2018 * Frontiers in Forecasting, Institute for Mathematics and its Applications (IMA), University of Minnesota, Minneapolis, USA

2018 * Health Care Analytics, Lunchalytics, Edmonton, Canada

2017 European Meeting of Statisticians, Helsinki, Finland
2017 * 7th International Workshop on Perspectives on High-dimensional Data Analysis, (HDDA-VII), CIMAT, Guanajuato, Mexico
2017 * 9th EMR-IBS and Italian Region conference, Thessaloniki, Greece
2017 * International Business & Economy Conference (IBEC), Puerto Montt, Chile

2016 * 9th International Conference of the ERCIM WG on Computational and Methodological Statistics, Seville, Spain
2016 * Robustness Theory and Methodology: Recent Advances and Future Directions Conference, Banff, Canada
2016 * International Indian Statistical Association (IISA) Conference, Corvallis, USA
2016 * Big Data and Models, Tinos, Greece
2016 * Forum of Neuroscience (FENS), Copenhagen, Denmark
2016 * Organization for Human Brain Mapping, 22nd Annual Meeting, Geneva, Switzerland
2016 * Novel Statistical Methods in Neuroscience, University of Magdeburg, Germany
2016 * Management International Conference (MiC), Pula, Croatia
2016 * 6th International Workshop on Perspectives on High-dimensional Data Analysis, (HDDA-VI), Fields Institute, Toronto, Canada

2016 * New York R Conference, New York City, USA
2016 * Eastern North American Region/International Biometric Society Annual Meeting, Austin, USA
2016 * 3rd Caribbean Biomedical Research Days, Rodney Bay, St Lucia
2016 * Mathematical and Statistical Challenges in Neuroimaging Data Analysis, Banff, Canada

2015 * 8th International Conference of the ERCIM WG on Computational and Methodological Statistics, London, UK
2015 Society for Neuroscience Annual Meeting, Chicago, USA
2015 * Applied Topology and High-Dimensional Data Analysis Meeting, Victoria, Canada
2015 * Joint Statistical Meeting, Seattle, USA
2015 * 17th Institute for Mathematical Statistics New Researchers Conference, University of Washington, Seattle, USA
2015 * International work-conference on Time Series Analysis (ITISE), Granada, Spain
2015 * Morning Workshop, Organization for Human Brain Mapping, 21st Annual Meeting, Honolulu, USA
2015 * Statistical Methods in Imaging Conference, Department of Biostatistics, University of Michigan, Ann Arbor, USA

2014 * 7th International Conference of the ERCIM WG on Computational and Methodological Statistics, Pisa, Italy
2014 Joint Statistical Meeting, Boston, USA
2014 * 16th Institute for Mathematical Statistics New Researchers Conference, Harvard University, Boston, USA
2014 Organization for Human Brain Mapping, 20th Annual Meeting, Hamburg, Germany
2014 * Statistical Society of Canada Annual Meeting, Toronto, Canada
2014 * SIAM Conference on Imaging Science, Hong Kong
2014 * International Symposium on Business and Management, Nagoya, Japan
2014 * New York Open Statistical Programming Meetup, New York, USA
2014 * Eastern North American Region/International Biometric Society Annual Meeting, Baltimore, USA
2014 * Inference for Change-Point and Related Processes: Isaac Newton Institute for Mathematical Sciences, University of Cambridge, UK

2013 * 35th Annual Meeting of Alberta Statisticians, Calgary, Canada
2013 * Statistics in Imaging Invited Session, Joint Statistical Meeting, Montreal, Canada
2013 * 15th Institute for Mathematical Statistics New Researchers Conference, Montreal, Canada
2013 Organization for Human Brain Mapping, 19th Annual Meeting, Seattle, USA
2013 Cognitive Neuroscience Society Annual Meeting, San Francisco, USA
2013 * 34th Annual Meeting of Alberta Statisticians, Edmonton, Canada

2012 * Frontiers in Finance Conference, Banff, Canada

2011 Joint Statistical Meetings, Miami, USA
2011 Organization for Human Brain Mapping, Quebec City, Canada
2011 * Imaging, Communication and Finance: Stochastic Modeling of Real-World Problems, Columbia University, New York City, USA

2008 * Modeling Multivariate Dependence and Extremes in Finance, Oxford-Man Institute, Oxford, UK

2005 25th Conference on Applied Statistics in Ireland, Enniskillen, Ireland

Other talks/webinars

2025 'Preparing for a career in industry', Statistics workshop, King Abdullah University of Science and Technology (KAUST), Saudi Arabia

2025 'On preparing for a career in US/Canada', Statistics workshop, King Abdullah University of Science and Technology (KAUST), Saudi Arabia

2025 Data, Analytics and Statistics Instruction (DASI) Brown Bag Series (virtual)

2024 JDC West: The Challenge Guest Speaker, Edmonton, Alberta, Canada

2023 'Business Analytics in the age of Generative AI', Edmonton Chapter of Chartered Professional Accountants, Alberta, Canada (virtual)

2023 The Operational Research Society (UK) webinar on 'AI Text Generators and the Future of Higher Education' [OR, Analytics, & Education SIG]

2023 'Business Analytics', Edmonton Chapter of Chartered Professional Accountants, Alberta, Canada (virtual)

Department Seminars

2024 El Instituto de Estadística (IESTA), Facultad de Ciencias Económicas y de Administración, Universidad de la República, Uruguay

2024 Statistical Sciences Applied Research and Education Seminar (ARES), CANSSI Ontario and the Department of Statistical Sciences, University of Toronto, Canada

2022 Data Science Centre, School of Population Health, Royal College of Surgeons in Ireland (virtual)

2022 Faculty of Statistics, TU Dortmund, Germany

2021 Department of Statistics, Federal University of Bahia, Brazil (virtual)

2021 Department of Industrial Engineering, Sharif University of Technology, Iran (virtual)

2021 Institute for Mathematical Stochastics, Otto-von-Guericke University, Germany (virtual)

2021 Department of Statistics, Charles University, Czech Republic (virtual)

2021 School of Mathematics, University of New South Wales, Australia (virtual)

2021 Department of Statistics, Southern Methodist University, USA (virtual)

2019 School of Statistics and Management, Shanghai University of Finance and Economics, China

2019 Canada Health Solutions, Saint John, Canada

2019 Department of Mathematics, Aarhus University, Denmark

2018 Centre of Mathematics (CMUP), University of Porto, Portugal

2018 Department of Statistics, University of California, Irvine, USA

2018 Department of Statistical and Actuarial Sciences, Western University, Canada

2018 School of Mathematical and Computational Sciences, University of Prince Edward Island, Canada

2018 Brain and Mind Institute, Western University, Canada

2017 Department of Applied Mathematics and Computer Science, Technical University of Denmark (DTU), Denmark
2017 School of Mathematics and Statistics, University of Canterbury, New Zealand
2017 Statistical Shape Analysis & Modeling Group, Florida State University, USA (virtual)
2017 Cognitive Neuroscience Seminar, University of Alberta, Canada

2016 School of Computer Science and Statistics, Trinity College Dublin, Ireland
2016 Department of Mathematics & Statistics, University of Otago, New Zealand
2016 School of Mathematics, University of Bristol, UK
2016 Department of Statistics, Ludwig Maximilian University of Munich, Germany
2016 Statistical and Applied Mathematical Sciences Institute (SAMSI), USA
2016 Department of Statistics, George Mason University, USA

2015 Department of Mathematics & Statistics, McMaster University, Canada
2015 Department of Decision Sciences, HEC Montréal, Canada
2015 Department of Economics, Macquarie University, Australia
2015 School of Mathematics and Applied Statistics, University of Wollongong, Australia
2015 Department of Statistics, Macquarie University, Australia
2015 School of Mathematical Sciences, Monash University, Australia
2015 Neuroscience and Mental Health Institute, University of Alberta, Canada
2015 Department of Mathematics and Statistics, University of Victoria, Canada
2015 Neuroimaging Statistics Research, University of Warwick, UK

2014 IISS Seminar, Haas School of Business, University of California, Berkeley, USA
2014 Department of Statistics, Chinese University of Hong Kong, Hong Kong
2014 Space–Time Group, Department of Statistics, University of California, Irvine, USA
2014 Department of Mathematical and Statistical Sciences, University of Alberta, Canada

2013 Neuroeconomics Laboratory, Haas School of Business, University of California, Berkeley, USA

2012 Department of Child and Adolescent Psychiatry, New York University, USA
2012 Division of Biostatistics and Epidemiology, Department of Public Health, Weill Medical College of Cornell University, USA
2012 Department of Statistics, Southern Methodist University, USA
2012 Department of Mathematics, San Jose State University, USA
2012 Department of Finance and Statistical Analysis, Alberta School of Business, University of Alberta, Canada
2012 Department of Decision Sciences, Lundquist College of Business, University of Oregon, USA
2012 Department of Mathematics, Bowdoin College, USA
2012 Centre for Research in Statistical Methodology (CRiSM), The University of Warwick, UK
2012 Department of Statistics, Virginia Polytechnic Institute and State University, USA
2012 Department of Information Systems, Statistics, and Management Science, Culverhouse College of Commerce, University of Alabama, USA
2012 Department of Mathematics and Statistics, Villanova University, USA
2012 Department of Mathematics and Statistics, Williams College, USA
2012 Department of Statistics and Probability, University of Queensland, Australia

Conference Discussant (* = Invited)

2019 * 62nd ISI World Statistics Congress, Kuala Lumpur, Malaysia

Workshops

2017 Junior Researchers Workshop, Eastern North American Region/International Biometric Society Annual Meeting, Washington D.C., USA

2014 Recent Advances in Survey Sampling Techniques, Banff International Research Station (BIRS), Banff, Canada

2014 PIMS Summer School on the Economics and Mathematics of System Risk and the Financial Networks, Sauder School of Business, University of British Columbia, Canada

2014 Inference for Change-Point and Related Processes: Isaac Newton Institute for Mathematical Sciences, University of Cambridge, UK

2013 Low-dimensional Structure in High-dimensional Systems (LDHD): Statistical and Applied Mathematical Sciences Institute (SAMSI), Research Triangle Park, North Carolina, USA

2012 Developing Novel Statistical Methods in NeuroImaging: University of California, San Diego, USA

2011 The UCLA Advanced Neuroimaging Summer program: Los Angeles, USA

2008 Applied Time Series Analysis in Scientific Computing: Oberwolfach, Germany

Teaching

Instructor

Alberta School of Business, University of Alberta

BUAN 405 – Forecasting for Planners and Managers (Undergrad):
Fall 2026

MMA 600 – Coding Bootcamp (Master in Managment Analytics):
Summer 2025, Summer 2026

MGTSC 405 – Forecasting for Planners and Managers (Undergrad):
Fall 2012, Fall 2013, Fall 2014, Fall 2015, Fall 2016, Fall 2017, Fall 2019, Fall 2020, Winter 2025, Winter 2026

MGTSC 645 – Introduction to Business Analytics (MBA/undergrad):
Winter 2023, Winter 2025, Winter 2026

MGTSC 705 – Multivariate Data Analysis I (PhD):
Winter 2013, Fall 2014, Fall 2015, Fall 2017, Fall 2019, Fall 2020, Winter 2023, Winter 2024, Winter 2025, Winter 2026, Fall 2026

MGTSC 707 – Applied Business Analysis of Time Series and Panel Data (PhD):
Fall 2014, Fall 2016, Fall 2017

MGTSC 706 – Multivariate Data Analysis II (PhD):
Fall 2013

OM 710 – Individual Research (PhD):
Fall 2020, Winter 2021, Fall 2021, Winter 2023, Winter 2024

MGTSC 495 - Individual Research Project I (Undergrad):
Fall 2015, Fall 2016, Winter 2017, Winter 2020, Fall 2020, Winter 2021, Winter 2023
Winter 2026

Alberta School of Business, University of Alberta (Shenzhen, China)
MGTSC 501 – Data Analysis and Decision Making (MBA):
Fall 2018, Summer 2019, Fall 2023, Summer 2024

Alberta School of Business, University of Alberta (Shanghai, China)
MGTSC 501 – Data Analysis and Decision Making (MBA):
Fall 2023, Summer 2024, Fall 2025

Nominated for the 2017 and 2018 Provost's Award for Early Achievement of Excellence in Undergraduate Teaching, University of Alberta

Nominated and Finalist for 2023 MBA Association Teaching Award, Alberta School of Business, University of Alberta

Neuroscience and Mental Health Institute, University of Alberta
NEURO 451 - Honors Research Project in Neuroscience:
Fall 2016

NEURO 452 - Honors Research Project in Neuroscience:
Winter 2017

Ludwig Maximilian University of Munich
High-dimensional methods for neuroimaging data:
Summer 2016

Columbia University
W1111 – Introduction to Statistics:
Spring 2008, Fall 2008, Fall 2009

Guest Instructor

Neuroscience and Mental Health Institute, University of Alberta
NEURO 510 – Neuroimaging in Neuroscience:
Fall 2024, Fall 2025, Fall 2026

Deparment of Biomedical Engineering, University of Alberta
BME 510 – Neuroimaging in Neuroscience:
Fall 2014, Fall 2016, Fall 2017, Fall 2019, Fall 2020, Fall 2021, Fall 2022, Fall 2023

Alberta School of Business, University of Alberta
BUS 101/201 – Foundations in Business:
Fall 2022

Teaching Assistant

Columbia University

Spring 2011 Non-Parametric Statistics (MA/Undergraduate)
Fall 2011 Data Mining (MA/Undergraduate),
Fall 2010 Stochastic Methods in Finance (MA/PhD)
Spring 2010 Stochastic Processes for Finance (MA/PhD)
Spring 2009 Statistical Methods in Finance (MA)
Fall 2007 Introduction to Statistics (Undergraduate)
Spring 2007 Probability (MA/Undergraduate)
Fall 2006 Theory of Interest (MA)

Other Professional Experience

Statistics without Borders, American Statistical Association

2018 – Statistical Consultant

Goldman Sachs Group, Inc., New York City

Summer 2009 Summer Associate, Investment Strategy Group, Tactical
Summer 2008 Summer Associate, Investment Strategy Group, Strategic

Department of Statistics, Columbia University

2007 – 2008 Statistical Consultant

Computer skills

Proficient in C, LaTeX, Matlab, Minitab, MS Office, Python, R, SAS, SAS, S-Plus, Stata
Operating Systems: Unix/Linux, Windows

Professional Activities

External Assessment Committee

2024 Associate Professor/Tenure Track Assistant Professor in Statistics, Department of Mathematics, Aarhus University, Denmark

External Promotions evaluator

Department of Statistics, University of California, Riverside, USA
Department of Statistics, Southern Methodist University, USA

Grant Reviewer

Research Grants Council of Hong Kong (x2)
Mitacs Accelerate Fellowship, Canada
Fonds Wetenschappelijk Onderzoek – Vlaanderen, Research Foundation - Flanders, Belgium
Medical Research Council, UK
Swiss National Science Foundation (Mathematics, Informatics, Natural Sciences and Technology)
Natural Sciences and Engineering Research Council of Canada Discovery Grant, Canada (x3)

External Examiner

2025 PhD thesis, Department of Statistical Sciences, University of Toronto, Canada
2021 PhD thesis, Department of Mathematics and Statistics, Macquarie University, Australia

2020 PhD thesis, Department of Mathematics and Statistics, The University of Western Australia
2018 Master's thesis, College of Science and Engineering, Flinders University, Australia

Journal Referee

Annals of Applied Statistics
Annals of Statistics
Applied Stochastic Models in Business and Industry
Bayesian Analysis
Bioinformatics
Biometrics
Biostatistics
Brain Imaging and Behavior
Communications for Statistical Applications and Methods
Computational Statistics and Data Analysis
Digital Signal Processing
Human Brain Mapping
IEEE Journal of Biomedical and Health Informatics
IEEE Transactions on Biomedical Engineering
Imaging Neuroscience
INFORMS Journal on Applied Analytics
Journal of Machine Learning Research
Journal of Quantitative Analysis in Sports
Journal of Sports Analytics
Journal of Statistical Theory and Practice
Journal of the American Statistical Association
Journal of the Royal Statistical Society, Series A
Journal of the Royal Statistical Society, Series B
Journal of the Royal Statistical Society, Series C
Journal of Time Series Analysis
Mathematical Sciences
Medical Image Analysis
Metron
Nature Communications
NeuroImage
Neurocomputing
PLOS Computational Biology
PLOS One
Psychiatry Research: Neuroimaging
Statistics and its Interface
Statistics and Probability Letters
Statistica Sinica
Statistical Papers
Statistics Surveys
Technometrics
WIREs Computational Statistics

Book Referee

Routledge
Sage Publications
Canadian Scholars & Women's Press

Book Volume Referee

Springer
Taylor & Francis Group

Abstract Reviewer

2019 Organization for Human Brain Mapping, 25th Annual Meeting, Rome, Italy
2018 Organization for Human Brain Mapping, 24th Annual Meeting, Singapore
2017 Organization for Human Brain Mapping, 23th Annual Meeting, Vancouver, Canada
2016 Organization for Human Brain Mapping, 22th Annual Meeting, Geneva, Switzerland
2015 Organization for Human Brain Mapping, 21th Annual Meeting, Honolulu
2014 Organization for Human Brain Mapping, 20th Annual Meeting, Hamburg, Germany
2013 Organization for Human Brain Mapping, 19th Annual Meeting, Seattle

Paper Reviewer

2026 European Conference on Machine Learning and Principles and Practice of Knowledge Discovery in Databases (ECML-PKDD), Naples, Italy
2025 European Conference on Machine Learning and Principles and Practice of Knowledge Discovery in Databases (ECML-PKDD), Porto, Portugal

Student Supervision

University of Alberta (Graduate)

9 | 2020 – Bo Han (PhD), Department of Accounting and Business Analytics
9 | 2020 – 8 | 2026 Yasser Zeinali (PhD), Department of Accounting and Business Analytics
1 | 2021 – 3 | 2026 Mehrnaz Behrooz (PhD), Department of Accounting and Business Analytics
5 | 2022 – 12 | 2025 Martin Ondrus (PhD), Neuroscience and Mental Health Institute
1 | 2021 – 12 | 2022 Martin Ondrus (MSc), Neuroscience and Mental Health Institute
*Transferred to the PhD program
1 | 2021 – 12 | 2022 Elnaz Nabiyi (PhD), Department of Accounting, Operations and Information Systems
9 | 2016 – 7 | 2018 Alex Lewandowski (MSc), Department of Mathematical and Statistical Sciences
9 | 2014 – 8 | 2016 Nadezda Frolova (MSc), Department of Mathematical and Statistical Sciences
9 | 2015 – 8 | 2015 Yunan Zhu (MSc), Department of Mathematical and Statistical Sciences

University of Alberta (Undergraduate)

4 | 2026 – 08 | 2026 Martín Grau Pérez (Visiting student, Mitacs Globalink Research Internship), El Instituto de Estadística, Universidad de la República
1 | 2026 – 06 | 2026 Animesh Mittal, Department of Computing Science

8 | 2024 – 11 | 2024 Ruihan Tao (Visiting student, China Council Scholarship), Harbin Institute of Technology

5 | 2024 – 11 | 2024 Yiyao Wu (Visiting student, China Council Scholarship), Tianjin University

5 | 2023 – 9 | 2023 Ruizhu Zhou (Visiting student, China Council Scholarship), Southwestern University of Finance and Economics

5 | 2023 – 5 | 2024 Zixin Li (Visiting student, China Council Scholarship), Department of Mathematics, Xidian University

5 | 2022 – 9 | 2022 Xinyu Gu (Visiting student, China Council Scholarship), Department of Computer Science, China Agricultural University

1 | 2021 – 8 | 2021 Patrick Wyrod, Alberta School of Business

1 | 2020 – 12 | 2020 Martin Ondrus, Alberta School of Business

6 | 2020 – 9 | 2020 Filip Sadurski, Jagiellonian University

1 | 2020 – 4 | 2020 Emily Olds, Alberta School of Business

6 | 2019 – 9 | 2019 Hanlin Zhang (Visiting student, China Council Scholarship), Department of Computer Science, South China University of Technology

6 | 2019 – 9 | 2023 Xin Xiong (Visiting student, China Council Scholarship), Department of Statistics, Beijing Normal University

9 | 2018 – 9 | 2020 Shiying Yang, Neuroscience and Mental Health Institute

8 | 2017 – 11 | 2017 Tianwei She (Visiting student, China Council Scholarship), Department of Computer Science, Renmin University of China

9 | 2016 – 5 | 2017 Matthew Krill, Neuroscience and Mental Health Institute

1 | 2017 – 5 | 2017 Joel Voss, Alberta School of Business

9 | 2016 – 12 | 2016 Kristin Langeste, Alberta School of Business

9 | 2015 – 12 | 2015 Braedan O'Reilly, Alberta School of Business

1 | 2014 – 12 | 2014 Xiaotong Lin (Visiting student), Tsinghua University

6 | 2014 – 8 | 2014 Scott Stone (UARE Summer Intern), University of Lethbridge

PhD Committees

University of Alberta

2025 – Roham Bahri, Department of Accounting and Business Analytics

2020 – 2025 Arash Asgari, Department of Accounting and Business Analytics

2018 – 2024 Likang Ding, Department of Accounting and Business Analytics

2021 – 2022 Xiaowen Zhang, Department of Finance

2017 – 2019 Mostafa Rezaei, Department of Accounting, Operations and Information Systems

PhD Exam Committees

University of Alberta

2025 Weisu Yu, Department of Finance

2022 Xiaowen Zhang, Department of Finance

2014 Amir Reza Alizad-Rahvar, Department of Electrical and Computer Engineering

2014 Victoria Suen, Department of Psychiatry

PhD Candidacy Exam Committees

University of Alberta

2022 Berhanu Wubie, Department of Mathematical and Statistical Sciences
2022 Arash Asgari, Department of Accounting and Business Analytics
2022 Weisu Yu, Department of Finance
2020 Maryam Zakeri Hosseinabadi, Department of Accounting and Business Analytics
2020 Likang Ding, Department of Accounting and Business Analytics
2019 Xiaowen Zhang, Department of Finance and Statistical Analysis
2017 Bordin Bordeerath, Department of Finance and Statistical Analysis
2017 Mostafa Rezaei, Department of Accounting, Operations and Information Systems
2016 James Benoit, Department of Psychiatry
2016 Chenxing Shou, Department of Finance and Statistical Analysis
2016 Violeta Kovacev-Nikolic, Department of Mathematical and Statistical Sciences
2013 Victoria Suen, Department of Psychiatry

PhD Candidacy Exam Committee Chair

University of Alberta

2026 Nancy Zhang, Department of Accounting & Business Analytics
2026 Erfan Rafieikia, Department of Accounting and Business Analytics

MSc Exam Committees

University of Alberta

2024 Grant Liu, Department of Computing Science
2023 Ali Hossein Gharari Foomani, Department of Computing Science
2016 Yi Zhou, Department of Mathematical and Statistical Sciences
2014 Farhood Mohammadi, Department of Mathematical and Statistical Sciences
2014 Imran Hasan, Department of Mathematical and Statistical Sciences
2014 Qian Shi, Department of Mathematical and Statistical Sciences
2013 Julia Esch, Department of Speech Pathology and Audiology

Workshop Organizer

2026 'Mathematical and Statistical Foundations for Knowledge Graph Reasoning', Casa Matemática Oaxaca (CMO), Oaxaca, Mexico

Conference Organizer

2012 '2021 Canadian Computational Neuroscience Symposium', University of Lethbridge, Lethbridge, Canada

Conference Session Organizer

2025 'High dimensional multivariate modelling and data analysis'
Invited Session, The 13th Conference of the IASC-ARS, Ho Chi Minh, Vietnam
2025 'Multilayer networks: new methods and applications'
Invited Session, Joint Statistical Meetings, Nashville, USA
2025 'New Horizons in High-Dimensional Statistics: Methodology, Theory, and Visualisation'
Organized Session, Data Science, Statistics, & Visualization (DSSV), Kruger National Park, South Africa

2025 'New advances in neurostatistics'
Invited Session, The Western North American Region of The International Biometric Society (WNAR), Whistler, Canada

2024 'Frontiers in Graph Learning: Novel Methods and Emerging Applications'
Invited Session, Joint Statistical Meetings, Portland, USA

2023 'High dimensional data: new methods and perspectives'
Invited Session, The Western North American Region of the The International Biometric Society (WNAR), Anchorage, USA

2022 'Tensor and multilayer networks'
Organized Session, 5th International Conference on Econometrics and Statistics, Kyoto, Japan

2020 'Advances in sports statistics'
Organized Session, 13th International Conference of the ERCIM WG on Computational and Methodological Statistics (virtual)

2019 'Statistics methods for sports'
Organized Session, 12th International Conference of the ERCIM WG on Computational and Methodological Statistics, London, UK

2019 'High dimensional methods for complex data'
Computationally-intensive methods for the robust analysis of non-standard data (CRoNoS) meetings, Limassol, Cyprus

2018 'Statistics in sports: Some recent developments'
Organized Session, 11th International Conference of the ERCIM WG on Computational and Methodological Statistics, Pisa, Italy

2018 'Statistics in sports: some new insights'
Topic Contributed Session, Joint Statistical Meetings, Vancouver

2018 'High dimensional time series analysis and its applications'
Invited Session, Joint Statistical Meetings, Vancouver

2015 'Statistics: real life decisions'
Topic Contributed Session, Joint Statistical Meetings, Seattle, USA

2015 'Estimating time varying connectivity'
Morning Workshop, Organization for Human Brain Mapping Annual Meeting, Honolulu, USA

2014 'The Graphical Modeling and Longitudinal Analysis of fMRI data'
Topic Contributed Session, Joint Statistical Meetings, Boston, USA

2014 'Recent Developments in Statistical Modeling of Brain Imaging Data'
Invited Session, International Biometric Conference, Florence, Italy

2014 'New Methods for Analyzing Brain Imaging data'
Invited Session, Statistical Society of Canada Annual Meeting, Toronto

2014 'Recent Developments in the Statistical Modeling of Brain Imaging Data'
Invited Session, SIAM Conference on Imaging Science, Hong Kong

2013 'Advanced Methods in Brain Imaging Research'
Invited Session, Joint Statistical Meetings, Montreal

Conference Session Chair

2026 'Mathematical and Statistical Foundations for Knowledge Graph Reasoning'
Invited Session, Casa Matemática, Oaxaca, Oaxaca, Mexico

2025 'High dimensional multivariate modelling and data analysis'
Invited Session, The 13th Conference of the IASC-ARS, Ho Chi Minh, Vietnam

2025 'Multilayer networks: new methods and applications'
Invited Session, Joint Statistical Meetings, Nashville, USA

2025 'New Horizons in High-Dimensional Statistics: Methodology, Theory, and Visualisation'
Organized Session, Data Science, Statistics, & Visualization (DSSV), Kruger National Park, South Africa

2025 'New advances in neurostatistics'
Invited Session, The Western North American Region of The International Biometric Society (WNAR), Whistler, Canada

2024 'Transport Optimization'
10th International Conference on Control, Decision and Information Technologies (CoDIT), Valletta, Malta

2023 'New Advances in Time Series Analysis and Forecasting'
Invited Session, 9th International conference on Time Series and Forecasting (ITISE), Gran Canaria, Spain

2023 'High dimensional data: new methods and perspectives'
Invited Session, The Western North American Region of the The International Biometric Society (WNAR), Anchorage, USA

2023 'Statistical Challenges for Complex Brain Signals and Images'
Casa Matemática Oaxaca, Oaxaca, Mexico

2022 'Tensor and multilayer networks'
Organized Session, 5th International Conference on Econometrics and Statistics, Kyoto, Japan (virtual)

2020 'Statistical methods in cancer research'
Eastern North American Region/International Biometric Society Annual Meeting, Nashville, USA

2019 'Statistics methods for sports'
Organized Session, 12th International Conference of the ERCIM WG on Computational and Methodological Statistics, London, UK

2019 'High dimensional methods for complex data'
Computationally-intensive methods for the robust analysis of non-standard data (CRoNoS) meetings, Limassol, Cyprus

2018 'Machine Learning and Brain Science'
10th EMR-IBS and Italian Region conference, Jerusalem, Israel

2018 'Statistics in sports: some new insights'
Topic Contributed Session, Joint Statistical Meetings, Vancouver

2017 'Economics'
International Business & Economy Conference (IBEC), Puerto Montt, Chile

2016 'Energy Markets'
Management International Conference, Pula, Croatia

2016 'Graphical Models'
Eastern North American Region/International Biometric Society Annual Meeting, Austin, USA

2015 'Institutions'
Northern Finance Association Conference, Lake Louise, Canada

2015 'Statistics: real life decisions'
Topic Contributed Session, Joint Statistical Meetings, Seattle, USA

2015 'Application in Time Series Analysis/Forecasting'
International work-conference on Time Series Analysis (ITISE), Granada, Spain

2015 'High Dimension and Complex/Big Data'
International work-conference on Time Series Analysis (ITISE), Granada, Spain

2015 'Estimating time varying connectivity'
Morning Workshop, Organization for Human Brain Mapping Annual Meeting, Honolulu, USA

2014 'The Graphical Modeling and Longitudinal Analysis of fMRI data'
Topic Contributed Session, Joint Statistical Meetings, Boston, USA

2014 'Recent Developments in Statistical Modeling of Brain Imaging Data'
Invited Session, International Biometric Conference, Florence, Italy

2014 'Recent Developments in the Statistical Modeling of Brain Imaging Data'
Invited Session, SIAM Conference on Imaging Science, Hong Kong

2014 'Statistical Analysis of MRI/fMRI data'
Joint Statistical Meetings, Boston, USA

2013 'Advanced Methods in Brain Imaging Research'
Invited Session, Joint Statistical Meetings, Montreal

Academic service

International

2025 Program Committee (PC) of the European Conference on Machine Learning and Principles and Practice of Knowledge Discovery in Databases – ECML PKDD, Oporto, Portugal

2023 Committee Chair for the Statistical Methods in Imaging (SMI) Conference Student Awards

2018 Joint Statistical Meeting (JSM) Docent Program, Vancouver, Canada

2015 Joint Statistical Meeting (JSM) Docent Program, Seattle, USA

2015 Program Committee member for Machine Learning Track, International Joint Conference on Artificial Intelligence (IJCAI), Buenos Aires, Argentina

2014 Panel member for the ASA Section on Statistical Learning and Data Mining (SLDM) Student Award

National

2013 – 2016 The Statistical Society of Canada (SSC) New Investigators Committee

University of Alberta

2020 – 2028 School of Business Rep on the Faculty of Science Council, University of Alberta

2019 – 2025 Operations & Information Systems PhD Coordinator, Alberta School of Business

2019 – 2025 PhD Policy Committee Member, Alberta School of Business

2024 – 2024 Reviewed PhD in Operations & Information Systems, Alberta School of Business

2024 – 2024 Department of Marketing, Business Economics, and Law Search Committee for Radhe Gupta Executive Chair in Cities and Communities, Alberta School of Business

2020 – 2024 5 Faculty Search Committees for Department of Accounting and Business Analytics including the CPA Chair Search Committee

2020 – 2023 Provost's Representative on Department Chair Selection/Review Committees

2020 – 2020 Panel member of "Cross-disciplinary and Multi-Methods Research", Business Research Conference

2018 – 2018 Judge for Three Minute Thesis (3MT) presentations, Alberta School of Business

2017 – 2017 Judge for Student Conference on Operations (S.C.O.P.E), Alberta School of Business
2016 – 2016 Panel member of "Job Market Process", PhD student research conference
2015 – 2016 Department of Finance and Statistical Analysis Faculty Search Committee

Professional Societies

Member, The American Statistical Association (ASA)
Member, International Statistical Institute (ISI)
Member, International Association for Statistical Computing (IASC)
Member, The Statistical Society of Canada (SSC)
Member, Organization for Human Brain Mapping (OHBM)

Governance and Advisory Experience

2022 – 2024 Hospitals & Community Day Care, Chair of Board
2020 – 2021 Hospitals & Community Day Care, Vice Chair of Board
2019 – 2020 Hospitals & Community Day Care, Board Member