

Data Science and Applied Statistics



Dr. Stephen Chan

Associate Professor

His research areas include extreme value analysis and distribution theory in analyzing financial commodities data and cryptocurrency data.



Dr. Yuanyuan Zhang

Assistant Professor

Her research focuses on statistical modeling, extreme value theory, distribution theory and data science with applications to finance, digital assets and medical science. Her current work investigates anomaly and fraud detection in blockchain networks, along with the role of blockchain in enhancing trust and transparency in digital economies. More broadly, she aims to integrate advanced statistical methods and network analysis to improve security and understanding within blockchain-based financial systems.



Dr. Ayman Alzaatreh

Professor

His current research interest focuses on generalizing statistical distributions arising from the hazard function. Other research areas include statistical inference of probability models, characterization of distributions, bivariate and multivariate weighted distributions and data mining.



Dr. Hana Sulieman

Professor

Her areas of research interests include sensitivity analysis in statistical modeling, feature selection, outlier detection and statistical design of experiments.



Dr. Luai Al Labadi

Associate Professor

His research focuses on Bayesian statistics, information theory, goodness-of-fit testing and computational methods in statistical inference. He develops Bayesian frameworks for model assessment, robustness analysis and the measurement of statistical evidence, with emphasis on relative belief inferences, prior-data conflict, and advances in Bayesian nonparametric methods. He completed postdoctoral



research at the University of Toronto, where he advanced theoretical and computational approaches to Bayesian model evaluation.

