



Dr Gang Xie (John Xie) is a current accredited statistician (admitted by Statistical Society of Australia) with an engineering background (BEng from China, MSc and PhD in statistics from New Zealand). His research experiences before 2013 included: optimization of workflow in a hospital emergency department setting using discrete event simulation; analysis of fine resolution time series data (stock market transaction data and rainfall data) using point process models; engineering asset reliability analysis. From 2013 to 2016, his research primarily focused on waste stabilization pond effluent reuse options and quantitative microbial risk assessment (QMRA) at Smart Water Research Centre, Gold Coast campus, Griffith University, Australia. In early 2017, his research topics included variable importance plots for species distribution models (SDM) using R packages 'biomod2' and 'ggplot2'; study on methods of data matching in the context of statistical analysis with non-experimental data (e.g., estimation of the average effect on the treated units in an observational study of young children's pathways project). As the full-time permanent statistician at Office of Research Services and Graduate Studies, Charles Sturt University, Gang/John is in charge of the Quantitative Consulting Unit (QCU) since July 2017. His job duties include providing statistical support to all higher degree research (HDR) students and staff; developing and delivering in-house training presentations/workshops for statistical analysis. As of 30 November 2021 he has handled 280 consulting cases and delivered various presentations or workshops (online or face-to-face) that covered the topics such as Using R for statistical analysis, Statistical power analysis using GPower, and a two-day/three-day Bayesian Network workshop (using Netica) to researchers at Charles Sturt University. A three-day Rasch/IRT model workshop (using R) has been developed last year (2020) to meet the needs of those researchers who are dealing with issues related to assessment of human behaviour or test performance.

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