

# Hypergraph Models with Application

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Networks, also known as graphs, are a common and useful tool used to model interactions among objects. However, graphs only capture pairwise interactions and relationships. This property often limits modelling and results as many real-world systems encompass multi-way interactions. As such, modelling systems with hypergraphs, being the generalisation of a graph, provides a more informative framework. In this talk, we will introduce hypergraphs and discuss some properties and measures which can be used to study the hypergraph structure. With this, we will then model an example data set and discuss the results.