

Speaker: Rhian Daniel (Cardiff University)

Title: “Regression models in Causal inference”

Abstract:

Although problems in causal inference typically have one relatively simple causal estimand as the ultimate target, parametric regression models (with multiple parameters) are often used as nuisance models in the estimation procedure. This can lead to a number of challenges, such as undiagnosed extrapolation and so-called null paradoxes, the latter being a problem when the regression models include non-collapsible parameters. In this talk, I will give a summary of these challenges, and discuss how a new class of parametric regression models —known as Regression by Composition— may offer some advantages.