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12:00-1:00 pm

Biotech Center Auditorium and Zoom:

<https://uwmadison.zoom.us/j/98097650633>

A Journey of Understanding Nonignorable Missingness and Some Reflections

Abstract: Nonignorable missing data are commonly seen in biomedical studies and social sciences research; however, developing solid statistical methodology has been notoriously difficult due to some intrinsic challenges of nonignorability. In this talk, I will first introduce some fundamental differences between ignorability and nonignorability. Then, I will present two methods which can produce asymptotically valid estimates under nonignorability: the first is based on the conditional independence assumption while the second relies on the geometric structure of the semiparametric model. I will also point out some connections between the two methods. Finally, I will discuss some relations of this line of research with sensitivity analysis as well as some statistical problems under distribution shifts.