

GRADUATE SEMINAR

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Graphical Methods for Evaluating the Cox Proportional Hazards Assumption.

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3:30pm

Mathematics and Statistics Lounge (CW 307.20)

Abstract: Proportional hazards (PH) regression is a standard methodology for analyzing survival and time-to-event data. To fit the survival data, PH regression does not require to know the distribution of the underlying data. However, the proportional hazards assumption of PH regression is not always appropriate. If the PH assumption is not met, it is possible that the subsequent analyses and risk estimates will be biased. Therefore, checking the PH assumption before fitting any data is a crucial step of doing survival analysis. This talk will introduce the Cox PH model and its characteristics, and discuss two graphical methods to check the PH assumption.