

GRADUATE SEMINAR

Yun Gao

Simulation and Practicing for Medical Data

MSc Student supervised by Dianliang Deng

Monday December 8

10:00 am

CW 307.20 (math lounge)

Abstract: When two correlation coefficients are calculated from a single sample, rather than from two samples, they are not statistically independent. This talk considers the case that the two or more correlations with a single ordinal longitudinal variable in common. A simulation evaluation of eight test statistics for comparing dependent correlations is conducted. The results indicated that the choice as to which test statistics is optimal, in terms of Type I error rate, depends not only on sample size but also on the magnitude of the correlations. Also briefly discussed is practicing the relatively efficient test statistics for testing equality of the correlation coefficients in real medical data.