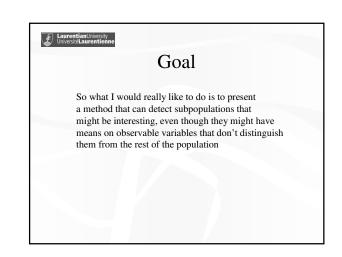
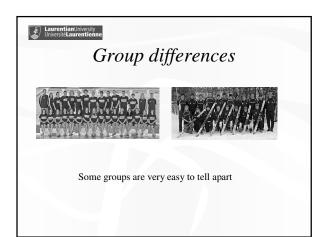
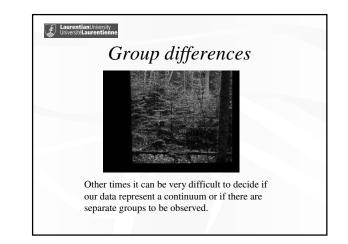
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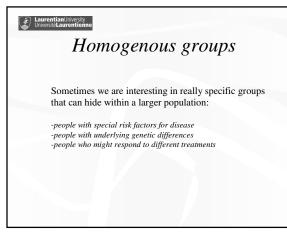
Detecting homogenous subsets of a population.

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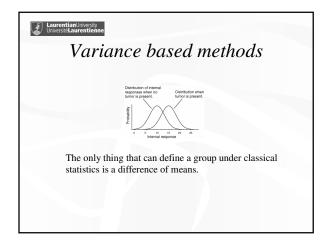


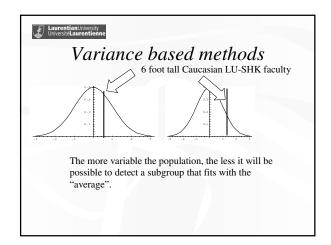


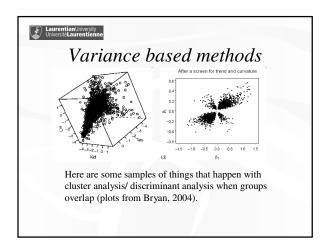
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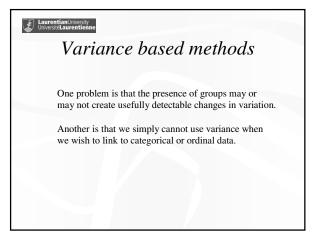
Homogenous subsets

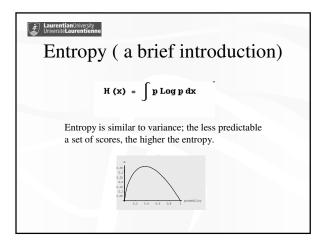
But these groups can be impossible to detect inside a variable population.

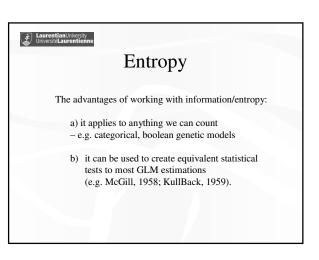


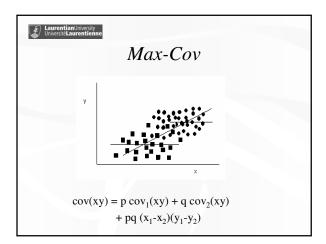


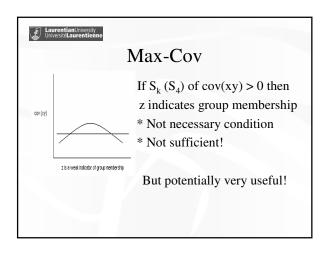


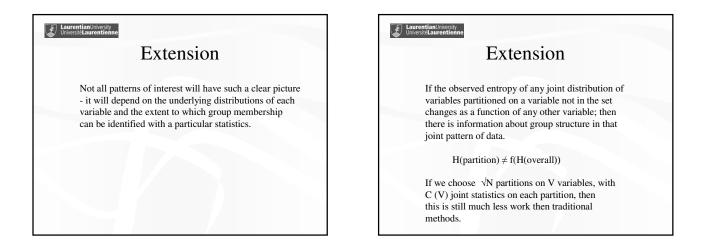


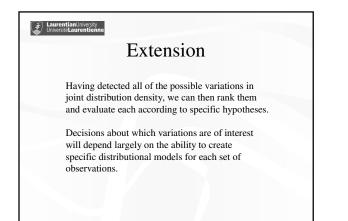


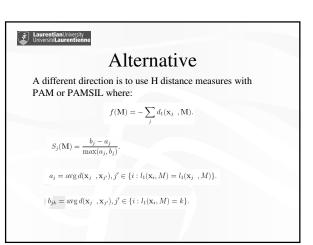


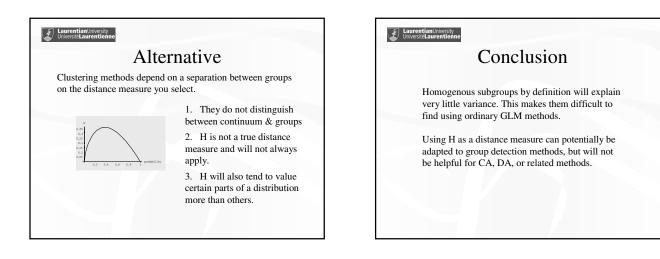














Next Step

If the H of some partitioned joint distribution is different from the non-partitioned joint distribution

- 1. We need to be able to assign a probability
- 2. We need to be able to test directly against models of population distribution to decide if this might reflect a homogenous subset.
- 3. We would like to link this type of selection model directly to genetic data (PBNs, for example).

Thank you

References

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> Bryan, J. (2004) Problems in gene clustering based on gene expression data. Journal of Multivariate Analysis, 90, 44-66. Kullback, S. (1959) Information theory and statistics. McGill, W. (1954) Multivariate information transmission. Psychometrika, 19, 97-116.