

STAT 647 Topics (tentative):

- Spatial data visualizations
- Spatial random processes (Variograms, Covariance functions, Inference, Kriging)
- Discrete spatial variation (Markov random fields, conditional and intrinsic autoregression models)
- Hierarchical modelling of spatial data
- Spatial clustering
- Point patterns
- Spatial-temporal processes
- Multivariate spatial process models
- Non-Gaussian spatial models
- Computational methods for large spatial datasets.