

1106-VI-1133      **Sami Cheong\*** ([cheongs@uwm.edu](mailto:cheongs@uwm.edu)). *Parameter Estimation of Correlated Spatial Data using EM Algorithm*. Preliminary report.

In this presentation, we propose an expectation-maximization (EM) approach to estimate the parameters of spatially correlated data modeled as realizations of an Ornstein-Uhlenbeck (O-U) process. In particular, we will review : 1) the properties of the O-U process 2) the properties of an EM algorithm and 3) illustrate and discuss the parameter estimation procedure under different cases of simulated data. (Received September 10, 2014)