

## CS599\_ATNN: Questions for Gaussian Processes (Nov15, 2000)

1. When do we call a probability distribution of a function  $y(x)$  a Gaussian process?
2. What is a weight space view of the linear regression problem ?
3. What is a function space view of the linear regression problem ?
4. Are these views mathematically equivalent ?
5. When do we prefer one over the other ?
6. What *prior* information does a covariance function contain?
7. What is an interesting/useful form of the covariance function?
8. What is the major drawback of the Gaussian Process treatment?
9. How can we make the predictions with Gaussian Processes more efficient?
10. What are the model selection issues & how are they handled?