

This is the Lecture Title

Scribe:

Date:

This is a sample equation 1:

$$x = \begin{bmatrix} x_a \\ x_b \end{bmatrix}, \mu = \begin{bmatrix} \mu_a \\ \mu_b \end{bmatrix}, \Lambda = \begin{bmatrix} \Lambda_{aa} & \Lambda_{ab} \\ \Lambda_{ba} & \Lambda_{bb} \end{bmatrix} \quad (1)$$

This is a sample equation 2:

$$p(x) = \frac{|\Lambda|^{1/2}}{(2\pi)^{d/2}} \exp\left[-\frac{1}{2}(x - \mu)^T \Lambda (x - \mu)\right] \quad (2)$$

This is a sample equation 3:

$$\begin{aligned} \left[-\frac{1}{2}(x - \mu)^T \Lambda (x - \mu)\right] &= -\frac{1}{2}(x_a^T \Lambda_{aa} x_a - 2\mu_a^T \Lambda_{aa} x_a + \mu_a^T \Lambda_{aa} \mu_a \\ &+ x_b^T \Lambda_{ba} x_a - 2\mu_b^T \Lambda_{ba} x_a + \mu_b^T \Lambda_{ba} \mu_a \\ &+ x_a^T \Lambda_{ab} x_b - 2\mu_a^T \Lambda_{ab} x_b + \mu_a^T \Lambda_{ab} \mu_b \\ &+ x_b^T \Lambda_{bb} x_b - 2\mu_b^T \Lambda_{bb} x_b + \mu_b^T \Lambda_{bb} \mu_b) \end{aligned} \quad (3)$$