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Lecture 4 Multivariate normal distribution and multivariate CLT. We start with several simple observations. If  $X = (x_1, \dots, x_k)^T$  is a  $k \times 1$  random vector then its expectation is  $EX = (Ex_1, \dots, Ex_k)^T$  and its covariance matrix is  $Cov(X) = E((X - EX)(X - EX)^T)$ . Notice that a covariance matrix is always symmetric  $Cov(X)^T = Cov(X)$

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Multivariate Statistical Analysis: Selected Lecture Notes, Radoslav Harman and = diag( 1 ; ; ; ; p) is the diagonal matrix with the eigenvalues on the diagonal. If  $1 > 2 > \dots > p$ , then the eigenvectors  $u_1, \dots, u_p$  are uniquely determined (up to a possible change of the sign). A pmatrix is positive definite, if it is symmetric and satisfies

[Introduction to Multivariate Statistical Analysis](#)  
Multivariate Statistics Lecture Notes Mit Opencourseware Cathedral of Learning. Instructor: Sungkyu Jung . e-mail address: sungkyu (at) pitt.edu Office: CL 2734 Phone: 412-624-9033; Office Hours: Tuesday and Thursday 4 – 4:30 or by appointment s; Grader: Ms. Qiyao Wang Lecture Notes - MIT OpenCourseWare MIT OpenCourseWare is a free & open publication of material

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In this course we will examine a variety of statistical methods for multivariate data, including multivariate extensions of t-tests and analysis of variance, dimension reduction techniques such as principal component analysis, factor analysis, canonical correlation analysis, and classification and clustering methods.

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Multivariate Statistics Lecture Notes - MIT OpenCourseWare Multivariate Analysis Notes Adrian Bevan , These notes have been developed as ancillary material used for both BABAR analysis school lectures, and as part of an undergraduate course in Statistical Data Analysis techniques. They provide a basic introduction to the topic of multivariate analysis.

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 $E(x) = \int E(x) = \int$  denotes the mean and  $Var(x) = \int Var(x) = \int$  the variance of  $xx$ . Multivariate random vector of dimension  $d$ :  $x = (x_1, x_2, \dots, x_d)^T$ .  $F_x = (F(x_1, x_2, \dots, x_d))^T$ .  $F_x$  is vector valued random variable. The vector  $xx$  is column vector (=matrix of size  $d \times 1$ ).

[1 Multivariate random variables | main.utf8](#)  
Here is one possible characterisation of the multivariate normal distribution:  $X$  is multivariate normal if and only if for any  $x$ ed vector  $a$ ,  $a^T X$  is univariate normal. Partitioning the normal vector  $X$  Take  $X_1$  as the first  $p_1$  elements of  $X$ , and  $X_2$  as the last  $p_2$  elements, where  $p = p_1 + p_2$ . Assume as before that  $X \sim N(\mu; \Sigma)$ , and now suppose that  $T = (T_1; T_2)$ .