



	All and a second a	
	X = (NA in R)  Y = By def, there cannot be mission ness	
	Di there is missing value in X, all A's Loc discuss, will	
	Missing Dato Mechanism (MDM)	**
	MDM PCmil Xi miss, X-i miss, Yi X-i obs, 8	
	MCAR - missing completely at random P(M; 18)  MAR - missing at random P(M; 1 X-j, miss, X-j, obs, 8)	
2	Challe and Comment of the Challenge of t	
<b>D</b>	Missing values. Why is this book?	
(II)	Impute (predit) missing values, build a prediction model for Xj's. Then fill in missing values with preditions	
	My recommend imputation procedure: "Miss Porest"	6
0	131 10 all mission walks with [x: 11	6
0	Fit $\vec{x}_i \sim RF(\vec{x}_i)$ where $\vec{x}_i$ was present in original $\vec{D}$ .  Then set missing values of $\vec{x}_i$ to be prediction from the RF.	
(a)	$P_1 + X_2 \sim Rf(X_2)$ "  11 L set missing value of $X_2$ "  12 "  13 "	5

16 DENTO PRIXP-RE(Xp) (Pi) Repeat steps 1-p until "convergence" i.e. imported value don't change significantly from iteration a D with no missingness One more general recommedation dummy variable, binary vector indicating missingness by observation has sample correction  $\sum (\chi_{i_1} - \overline{\chi}_i) (\chi_{i_2} - \overline{\chi}_2)$ P12 = 112 = \(\(\tilde{\chi}\_{(1)} - \tilde{\chi}\_{1}\)^{2} \(\tilde{\chi}\_{(2} - \tilde{\chi}\_{1}\)^{2} You can imagine due to sampling error. 1 r12 | 21 but (12 = 0. There situation are called "spurious correlation" 6