Statistics Cheat Sheet

Mr. Roth, Mar 2004

1. Fundamentals

- Population Everybody to be analysed
 - Parameter # summarizing Pop.
- Sample Subset of Pop we collect data on
 - Statistics # summarizing Sample
- Quantitative Variables a number
 - Discrete countable (# cars in family)
- Continuous Measurements always # between
- d. Qualitative
 - Nominal just a name
 - Ordinal Order matters (low, mid, high)

Choosing a Sample

- Sample Frame list of pop we choose sample from
- Biased sampling differs from pop characteristics.
- Volunteer Sample any of below three types may end up as volunteer if people choose to respond.

Sample Designs

- e. Judgement Samp: Choose what we think represents
- Convenience Sample easily accessed people
- Probability Samp: Elements selected by Prob
 - Simple random sample every element = chance
 - Systematic sample almost random but we choose by method
- Census data on every everyone/thing in pop

Stratified Sampling

Divide pop into subpop based upon characteristics

- Proportional: in proportion to total pop
- Stratified Random: select random within substrata
- Cluster: Selection within representative clusters

Collect the Data

- Experiment: Control the environment.
- Observation:

2. Single Variable Data - Distributions

- Graphing Categorical: Pie & bar chart)
- Histogram (classes, count within each class)
- shape, center, spread. Symmetric, skewed right, skewed left
- Stemplets

0	11222	0	112233
1	011333	0	56677
22	etc	- 1	

- q. Mean: $\bar{x} = \sum x_i / n$
- r. Median: M: If odd center, if even mean of 2

Boxplot:

Milm	Qrt	M	Q3	Max
-				

- t. Variance: $s^2 = \sum (x \overline{x})^2 / (n-1) = SS_x / (n-1)$,
- p78; standard deviation, s = √s²

v.
$$SS_x = \sum (x - \bar{x})^2 = \sum x^2 - (\sum x)^2 / n$$

- Density curve relative proportion within classes area under curve = 1
- Normal Distribution: 68, 95, 99.7 % within 1, 2, 3 std deviations.
- y. p98: z-score $z = (x \overline{x})/s$ or $(x \mu)/\sigma$
- Standard Normal: N(0,1) when N(μ,σ)

3. Bivariate - Scatterplots & Correlation

- Explanatory independent variable
- Besponse dependent variable
- e. Scatterplot: form, direction, strength, outliers
- d. form is linear negative,
- e. to add categorical use different color/symbol
- p147: Linear Correlation- direction & strength of linear relationship
- Pearsons Coeff: (-1 ≤ r ≤ 1) 1 is perfectly linear + slope, -1 is perfectly linear - slope.

$$h. \quad r = \frac{1}{n-1} * \sum \frac{(x-\overline{x})}{s_x} \frac{(y-\overline{y})}{s_y} = \frac{SS_{xy}}{\sqrt{SS_x SS_y}}.$$

- $r = z_n z_n / (n 1)$.
- $_{\beta} = SS_{xy} = \sum xy \frac{\sum x \sum y}{n}$

4. Regression

- least squares sum of squares of vertical error minimized
- 1. p154: $y = b_0 + b_1 x$, or $\hat{y} = a + bx$.
- m. (same as y = mx + b)

$$b_{x} = \frac{\sum (x - \bar{x})(y - \bar{y})}{\sum (x - \bar{x})^{2}} = \frac{SS_{xy}}{SS_{x}} = r(s_{y} / s_{x})$$

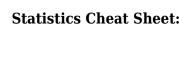
 Then solving knowing lines thru centroid ((x̄, ȳ); a = ȳ − bx̄

$$p. \quad b_0 = \frac{\sum y - (b_i \sum x)}{n}$$

- q. r^2 is proportion of variation described by linear relationship
- r. residual = $y \hat{y}$ = observed predicted.

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