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

Sample Designs

- 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
- L Observation:

2. Single Variable Data - Distributions

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

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

Boxplet:

Miln	Q1	M	Q3	Mapo

- L. Variance: $s^2 = \sum (x \bar{x})^2 / (n 1) = SS_x / (n 1)$,
- u. p78; standard deviation, $s = \sqrt{s^2}$

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

- w. 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 $(x \mu)/\sigma$
- z. Standard Normal: N(0,1) when N(μ,σ)

3. Bivariate - Scatterplots & Correlation

- a. Explanatory Independent variable
- Response dependent variable
- Scatterplot: form, direction, strength, outliers
- d. form is linear negative, ...
- 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.

$$h. \quad r = \frac{1}{n-1} * \sum \frac{(x-\bar{x})}{s_s} \frac{(y-\bar{y})}{s_y} = \frac{SS_{sy}}{\sqrt{SS_sSS_y}}.$$

L $r = z_n z_n / (n - 1)$.

$$SS_{xy} = \sum xy - \frac{\sum x \sum y}{n}$$

4. Regression

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

$$b_1 = \frac{\sum (x - \bar{x})(y - \bar{y})}{\sum (x - \bar{x})^2} = \frac{SS_{xy}}{SS_x} - r(s_y / s_z)$$

 Then solving knowing lines thru centroid ((x, y); a = y - bx

$$b_0 = \frac{\sum y - (b_1 \sum x)}{n}$$

- q. r*2 is proportion of variation described by linear relationship
- r. residual = v v = observed predicted.

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Zhe Xu



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