Psychology 445: Advanced Research Design & Analysis

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Office hours: 1 to 3, Tuesdays, 12 to 1, Thursdays

Course Goal

- Teach you how to ask and answer questions using survey data
  - Opportunity for Signature Work
  - Build upon previous student experience research
  - Complete Qualtrics link via CANVAS:
    - https://sonoma.az1.qualtrics.com/jfe/form/SV_72N15Zr80jriLkN
  - Create your own account via dashboard
Web page:
http://www.sonoma.edu/users/s/smithh/psy445/

Username: Student, Password: Stuff
Canvas limited, Email if problems

Class requirements
- Weekly statistics homework (can be recycled)
- 5 lab reports
- Own project
  - Topic
  - 8 bibliographies
  - PowerPoint presentation
    - First draft
    - Final draft
Project as piece of larger project

- Secondary analysis of previous data
  - Note readings on website (not all associated with schedule)
  - Three data sets to explore
- Proposal for future data
  - Shared annotated bibliographies
    - https://drive.google.com/drive/folders/1LmDnLYkdYmQa-0DLb4RoZhBBVQdyAxF9?usp=sharing
  - Interviews with stakeholders

Tentative daily schedule

- 9:00 – 9:15 am, space for questions, discussion, whatever
- 9:15 – 10:15 am, Focus on statistics for weekly homework
- 10:25 – 11:25 am, Focus on SPSS techniques for exploring data, testing hypotheses
- 11:35 – 12:40 pm, Project design work
“Proper” Introductions

- 4 “quadrants”
  - Goals
  - Fears
  - Strengths
  - Weaknesses

A “taste” of what’s to come

- Analysis: Download Short Survey into SPSS
  - Create a scale
    - Reverse score, alpha
    - Frequencies, Mean, SDs
- Shared project
  - Basic outline
Reverse Score Items

- Transform
  - Recode into same variables

Calculate Cronbach’s Alpha

- Analyze
  - Scale
    - Reliability analysis
Create Scale

- Transform
  - Compute variable

Look at frequencies, mean, SD

- Analyze
  - Frequencies
Basic design:

Time 1 – Senior spring
Time 2 – 6 months later?
Time 3 – 18 months later?