

Basic Data Analysis

UCSB SUMMER STATS WORKSHOP 2023

WEEK 4



Week 3 Example Data

$N = 720$ Participants (360 female)

Each participant paired with a sham partner

Learn one piece of information about partner. Either:

- Morally good: e.g., they volunteer their time at a soup kitchen
- Morally bad: e.g., they occasionally steal money from an elderly family member

Puzzle task:

- Must solve a puzzle in under 1 minute or partner receives electric shock
- Either participant or partner attempts puzzle
- Shock is either low, medium, or high voltage
- Puzzle is unsolvable (partner always gets shocked)

Week 3 Example Data

Measures:

Guilt:

- “How much guilt do you feel toward your partner?”
- 7-point Likert Scale
- Some missing data due to computer failure

Generosity:

- Participant asked how they would divide \$10 between themselves and their partner
- Two time points: (1) start of experiment and (2) after shock

Personality:

- Ten-Item Personality Inventory (TIPI)
- 10 7-point Likert scales
- Measures Openness, Conscientiousness, Extraversion, Agreeableness, Neuroticism
 - 2 items each
- Half of items reverse-coded

Ten-Item Personality Inventory-(TIPI)

Here are a number of personality traits that may or may not apply to you. Please write a number next to each statement to indicate the extent to which you agree or disagree with that statement. You should rate the extent to which the pair of traits applies to you, even if one characteristic applies more strongly than the other.

Disagree strongly	Disagree moderately	Disagree a little	Neither agree nor disagree	Agree a little	Agree moderately	Agree strongly
1	2	3	4	5	6	7

I see myself as:

1. ____ Extraverted, enthusiastic.
 2. ____ Critical, quarrelsome.
 3. ____ Dependable, self-disciplined.
 4. ____ Anxious, easily upset.
 5. ____ Open to new experiences, complex.
 6. ____ Reserved, quiet.
 7. ____ Sympathetic, warm.
 8. ____ Disorganized, careless.
 9. ____ Calm, emotionally stable.
 10. ____ Conventional, uncreative.
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TIPI scale scoring (“R” denotes reverse-scored items):

Extraversion: 1, 6R; Agreeableness: 2R, 7; Conscientiousness: 3, 8R; Emotional Stability: 4R, 9;

Openness to Experiences: 5, 10R.

Predictions

GUILT

1. People will feel more guilt when:
 - 1.1. They caused the shock
 - 1.2. The partner is morally good
 - 1.3. The shock is stronger
2. Women will report more guilt than men
3. Agreeable people will report more guilt
4. Neurotic people will report more guilt

GENEROSITY

5. People will be more generous when:
 - 5.1. They caused the shock
 - 5.2. The partner is morally good
 - 5.3. The shock is stronger
6. Women will be more generous than men
7. Agreeable people will be more generous
8. Neurotic people will be more generous