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## 1 | Experiment Design

### 1.0.1 | Mechanistic Understanding

- Once data has been collected, it is important that one tries to get a mechanistic understanding.
  - This means more why this pattern is occurring. ### Data vs Theory
- Evidence is very different from theory.
  - Evidence may describe a pattern, but as soon as any theory or interpretation is applied it
    - \* One of De's mentors called this religion vs evidence
  - Example: He takes a survey that has us all saying that we feel relatively safe, but we don't feel calm and we feel stressed out
    - \* With this data you can draw two conclusions
      - We are in a world where we are stressed
      - We are a world where we aren't stressed
    - \* There has to be one or the other
      - The evidence supports the first one, but one cannot prove anything
- The pattern is an extrapolation of the data
  - It's considered religion