

## Quiz 3 One Pager

### Lecture 1 - Sections of a Research Paper

Abstract:

- Summarizing the key parts of the study

Introduction:

- Reason for the study / research project
- Its importance
- Background info / literature review
- State a research question or goal

Methods:

- Info about how the research was conducted
- Formal statement of the hypotheses
- Data collection + cleaning procedures
- Method of analysis / statistical test
- Assumptions & checking

Results:

- Stating outputs or numerical findings
  - Summarise
  - Tables, graphs, other visualizers

Conclusions:

- Interpret the findings / #s in the context of the research questions & other studies / key information
- List drawbacks / limitations + future direction for the research

References:

- Bibliography (format depends on publication journal guidelines)

### Lecture 2 - Intro to Bias

Bias - prejudice in favor of or against a thing, person, or group when compared to another usually in a way that is considered unfair

Publication Bias - Significant / positive results have a better chance of being published

Reporting Bias - Focusing on some desirable results and/or admit or suppress undesirable or nonsignificant results.

Confirmation Bias - when researchers [consciously or unconsciously] looks for and/or favors the expected results or the results that align with their opinion

- Blame protocol issue or ignore the results are contrary to their opinions

Recall Bias - participant of a study misremembers (unintentionally usually) an event or exposures in the past to fit a narrative.