How to work with a statistician

STATS DOC

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CSTAT
Center for Statistical Training & Consulting

cstat.msu.edu

1

I have a question

I can describe my research question clearly

I have background, information about data source(s) & key references

I am excited to discuss!

2

My data

Understanding the data: available information, potential biases, limitations, missingness

68.02	50	-55	-55
100.92	113	117	119
76.25	45	50	-52.5
76.60	40	45	-47.5

Data storage and access?

Are the data appropriate for the research question?

3

What do I need from a statistician

What are my expectations? Desired deliverables?

Agree on feasible timelines ✓

Discuss requirements, roles, attribution ✓

4

My responsibilities

Involve a statistician early!

Define clear research aims and objectives

Be open to ideas

Get ethics approval

Provide quality data and explain their background

Communicate in a timely manner

5

Statisticians responsibilities

Learns about the background

Adheres to ethical guidelines for statistical practices

Provides accurate guidance on study design and methods.

Explains clearly

Checks data quality, performs data analysis, checks validity

Communicates in a timely manner

6

Success for all!

Empowered with new ideas ✓

Choices based on sound statistical ideas ✓

Strong collaborative relationships

Submitted manuscript/abstract/grant proposal/dissertation