

Twitter Thread by The Desi Science Page

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This is a thread on statistics in science: 1/7 (via @LogicofScience)

Basic Statistics Part 1: The Law of Large Numbers <https://t.co/wUH8eAAIak>

#Science #Statistics

Statistics are a fundamental and vital component of science, and a good grasp of statistics is absolutely essential if you want to be able to understand scientific results. Nevertheless, the vast majority of people have little or no knowledge of statistics. This leads to a great deal of confusion. Indeed, the vast majority of anti-science arguments that I have heard can be traced back to a poor understanding of statistics. It is therefore my goal to use this series of posts as a brief primer on statistics. In it, I will attempt to briefly explain some of the core concepts which are so often confused and misused. To really be qualified to understand science, you should take several courses in statistics and practice repeatedly, but these posts should at least help you to see through some of the crap on the internet.

Basic Statistics Part 2: Correlation vs. Causation

<https://t.co/Azhyl8pDsX> (2/7)

Basic Statistics Part 3: The Dangers of Large Data Sets: A Tale of P values, Error Rates, and Bonferroni Corrections

<https://t.co/LetN6aEBRM> (3/7)

Basic statistics part 4: understanding P values

<https://t.co/K8MMMgTCOf> (4/7)

Basic Statistics Part 5: Means vs Medians, Is the "Average" Reliable?

<https://t.co/xDdsknlZyt>
(5/7)

<https://t.co/yGxTh2HPf9> (6/7)

When can correlation equal causation?

<https://t.co/Vl3JmC8NMe> (7/7)

While you are here, also have a look at this thread on rules of logic:

<https://t.co/OtVrL0nyll>

Logic is the basis of any scientific argument. This is a thread on rules of logic by [@LogicofScience](#)

The Rules of Logic Part 1: Why Logic Always Works<https://t.co/NpxZ5diZoK>

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— The Desi Science Page (@desisciencepage) [June 29, 2020](#)

Thanks for your patience.

May be mark this thread too for reading later? One on logical fallacies: <https://t.co/Z7S9kNsFol>

-End-

Let's talk about logical fallacies:

"Perhaps the most common mistake that people make in debates is the use of logical fallacies. This occurs largely because people generally are not taught logical fallacies, and, therefore, don't recognize them when they use or see them"

1/n pic.twitter.com/P7xVY9Ehln

— The Desi Science Page (@desisciencepage) [June 25, 2020](#)