## Constructing Quantitative Arguments

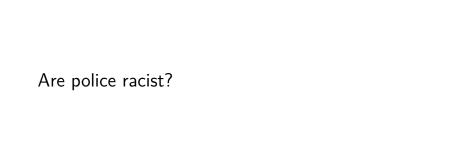
 $(Professor Dave)^2$ 

The University of Austin

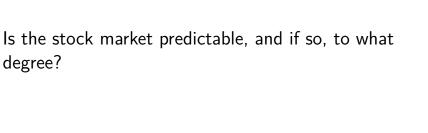
You are confronted with a difficult question with many moving parts and possible outcomes.

How do you effectively answer this question, acknowledging the complexity, uncertainty, and trade offs involved?

Are medical schools discriminatory in admissions?

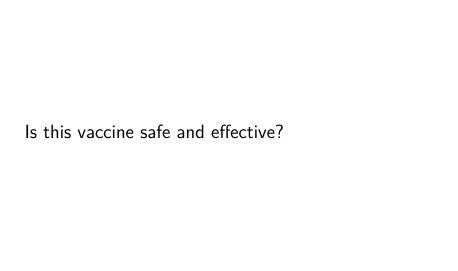


Is private space travel the best way to become a multiplanetary species?



Will increasing the minimum wage help or hurt the

economy?





Should I <del>propose to</del> ask out a fellow UATX student?

## An analogy: Building a house



There's only one way to manage something so complex:

- Break down the complex task into simpler tasks
- Sequence the tasks so that each one builds on prior tasks and feeds into subsequent tasks

## An analogy: Building a house

A quantitative argument is built from sequencing simpler tasks

- Framing the question
- Building a model
- Gathering data
- Making defensible assumptions
- Probing the model's outputs

