Ashley Tai
AMS 7
7 Jun 18

this time: optimal decisions under uncertainty

today:
L-(31?) → L-(32?)

optional (social) office hour @ 4 pm Sat 16 Jun 18 @ Lúpulo (downtown SC)

a = action space
$= \{ r : 50 \text{ mph} \leq r \leq 90 \text{ mph} \}$

deciding action space

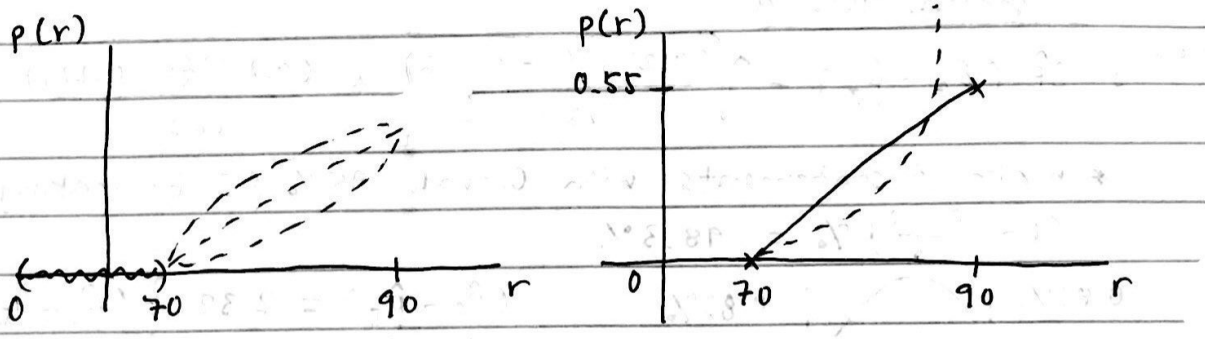
- action space: range of speed that is ideal

① if you drive too slow, it will take too long to arrive

② if you drive too fast, the risk of getting speeding ticket increases

Daniel Bournelli (1620s)

utility (u): quantifies your preferences for the consequences C



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$u(a, \text{unknown}) = (\text{costs}) + (\text{benefits})$